

Laboratory Guide 2021

Valid from 1st January 2021

TDL Customer Charter

We are committed to being the most helpful pathology service in the UK. Our goal is always to provide a high level of service to our customers, who request pathology services, for their patients. This is a philosophy shared by all Sonic Healthcare Pathology practices. We are medically led, and patients are our first concern. We always try to look to improve our operational expertise, and we strive to provide professional leadership within our specialities.

We promise to provide easy access to our pathology services

- · We will always provide a friendly, helpful service.
- Our automated laboratory departments operate 24 hours a day, 7 days a week, and we aim to achieve, or improve, our published turnaround times.
- Our medical consultants and laboratory teams are available to provide additional clarification, advice or information for tests or results.

We promise to help you

- We invest in technical and operational excellence, with an extensive test repertoire, to ensure access to a leading-edge laboratory service.
- We return results using the reporting method choice, in an as organised and safe way as possible.

We promise to support the communities we work in

- We do our utmost to provide a service, even during extreme external disruptions beyond our control.
- We are committed to our staff's continued professional development.
- We have an organised programme to provide young people with work experience.
- We support our local community.

We promise to listen

- We acknowledge customer issues, and try to resolve them promptly and consistently.
- If our delivery has been adversely affected, we will address and review our procedures so that our service reaches the highest standards.
- · We actively ask for feedback so that we can continue to improve our service.

Complaints policy

It is the aim of the company to maintain its core values. Two of these core values are:

- · Commit to service excellence.
- Be enthusiastic about continuous improvement.

Where a doctor or patient needs to raise a complaint about service levels they should contact Cyril Taylor, Director of Laboratory Compliance, or Annette Wilkinson, Director of Service at tdlservice@tdlpathology.com giving details of the complaint.

The information forwarded will be treated as confidential and investigated by the above persons. This process will link into Quality Management procedure for incident investigation. Corrective and preventative actions will be introduced where indicated.

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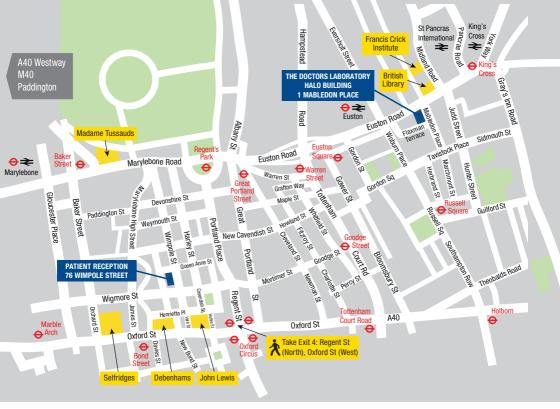
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THE DOCTORS LABORATORY

The Halo Building, 1 Mabledon Place, London WC1H 9AX Tel: 020 7307 7373

E-mail: tdl@tdlpathology.com Web: www.tdlpathology.com

PATIENT RECEPTION/PHLEBOTOMY SERVICES

76 Wimpole Street, London W1G 9RT Telephone: 020 7307 7383

Email: patientreception@tdlpathology.com

OPENING TIMES

Monday to Friday 7.00am – 7.00pm Saturday 7.00am – 1.00pm Out of hours samples can be dropped at:

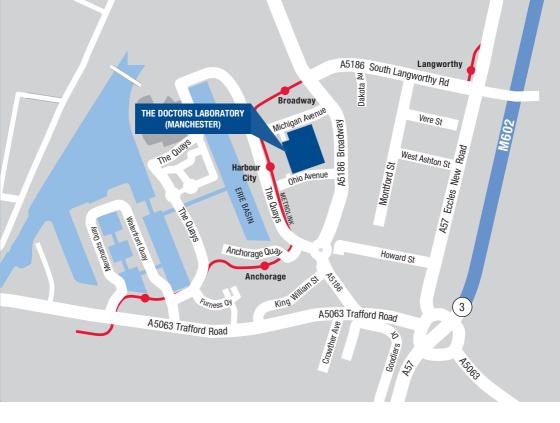
Patient Reception 76 Wimpole Street London W1G 9RT

Or at any time at the main laboratory:

The Halo Building 1 Mabledon Place London WC1H 9AX

Samples are taken at Patient Reception only. Samples cannot be taken

at The Halo Building.



THE DOCTORS LABORATORY (MANCHESTER)

Michigan House, Michigan Avenue Salford Quays, Manchester M50 2GY

Tel: 0161 332 7181

Web: www.tdlpathology.com

Samples can be dropped at the laboratory at any time.

COURIER COLLECTIONS

Tel: 0161 332 7187

The Laboratory Guide is designed to give you an easy-to-use reference for the most regularly requested services, pathology profiles and tests. If you are not able to find details for tests and services, please contact the laboratory on 020 7307 7373. We continue to develop a wide range of test and patient services and our aim is to offer commitment to customer service, strong working relationships and help and support for referring doctors and their practices.

For details about all services, please contact the laboratory on 020 7307 7373, or for more information visit www.tdlpathology.com.

LONDON LABORATORY TIMES: 24 HOURS

A wide range of analytical services are run 24/7 but not all tests or departments operate throughout the night, weekends, or bank holidays.

Outside routine hours the night team provide a wide range of analytical services but not all tests will be run as standard. No surcharges are made unless there are special arrangements for courier collections or investigations requiring additional resources.

Outside Patient Reception hours samples may be dropped off at 76 Wimpole Street, London W1G 9RT or at the laboratory at The Halo Building, 1 Mabledon Place, London WC1H 9AX (see page 4) at any time.

MANCHESTER LABORATORY TIMES: 24 HOURS

Samples may be dropped off at the laboratory at Michigan House, Michigan Avenue, Salford Quays, Manchester M50 2GY (see page 5) at any time.

MANCHESTER TURNAROUND TIMES

Tests not processed at our laboratory in Manchester will be referred to the TDL Main laboratory. If you need information about turnaround times please contact the laboratory.

PATIENT RECEPTION TIMES

Patient Reception is at:

76 Wimpole Street, London W1G 9RT

Monday to Friday 7.00am-7.00pm, Saturday 7.00am-1.00pm Direct line tel: 020 7307 7383

Direct line tel. 020 7307 7303

Appointments are only necessary if a patient needs specialised investigations or care. Patients should always bring a request form or referral letter with them. Instructions can be telephoned ahead of the patient's attendance, if this is more convenient.

Patient Reception Direct line tel: 020 7307 7383 Email: patientreception@tdlpathology.com

Sample taking is undertaken by qualified staff for which a standard sample taking fee of £45.00 is charged to patients. A fee of £22.00 is charged to doctors and clinics for each patient. Sample taking services for extended tests (see page 129) and **Drugs of Abuse with Chain of Custody** are routinely available.

Cervical cytology, HVS and cervical swabs are not taken at 76 Wimpole Street.

Patient Reception sample taking services are not available in Manchester.

SEMEN ANALYSIS

Semen samples need specialist handling within the laboratory. For this reason all requests for Semen Analysis must be made by appointment. Practices or patients can make an online appointment at www.tdlpathology.com/andrologybooking or call **020 7307 7373** to make appointments and confirm instructions for sample collection. There is an attendance fee of £45.00.

- 1 Patients must abstain from ejaculation for at least 2 days but not longer than 5 days before the test.
- 2 Ideally semen samples should be produced at The Doctors Laboratory, 76 Wimpole Street, unless there are exceptional circumstances. In these exceptional circumstances please contact TDL Andrology on 020 7025 7940 for special arrangements and instructions. Refer to Andrology, see page 60.

Semen analysis service is not provided in Manchester.

PATIENT REQUEST FORM

To comply with good clinical practice it is important that there is one request form for each patient's request, and specimens and form are correctly and fully labelled, to include three unique patient identifiers:

- First name, Surname, Date of birth, Hospital/ Clinic number, Medical Record Number (MRN) are examples of patient identifiers
- Time and Date of collection of samples
- Type of sample and Anatomical site, where appropriate (e.g. swabs)
- Relevant clinical information

- Relevant details of medication
- High Risk Samples should be clearly identified on the form and individually packed separately from other samples
- Hazard Group 4 pathogens (such as Ebola or Viral Haemorrhagic Fever) must not be sent to the laboratory – please contact the National Fever Service on 0844 778 8990 for advice before sending samples to the laboratory

If additional tests are required for a sample already received please contact the laboratory on 020 7307 7373 with your request for specific further analysis. Samples are stored within timeframes according to their discipline. Laboratory staff will advise on the ability to undertake further testing from samples already received in the laboratory.

EMAILED REQUESTS FOR ADD ONS

The majority of samples received in the laboratory are kept for one week. If sample type and volume allow, further testing can be requested by telephone (020 7307 7373) or by email to **addons@tdlpathology.com**. Please specify the test details to be added, together with Patient details, and LABORATORY NUMBER need to be given with Emailed requests.

HOME VISITS

This service is available for patients who, for whatever reason, prefer samples to be taken at home or at locations other than a doctor's practice or TDL's Patient Reception at 76 Wimpole Street. This is a service that is used regularly to save time for both doctors and patients and ensures that results can be made available before consultation is undertaken.

There is a visit fee from £120.00 to patients within the M25, from £160.00 for children when two nurses are needed. Home visits outside the M25, for weekends, bank holidays and night fees are by special arrangement. To arrange a Home Visit please telephone Patient Reception on **020 7307 7383** or email homevisits@tdlpathology.com.

TDL COLLECT: SPECIMEN COLLECTION SERVICES BY COURIER

TDL operates a dedicated and extensive specimen collection service. **TDL Collect** provides a 24 hour professional sample collection service on an urgent, regular or random basis. No charge is made for collections from practice within the M25. Sample collection from practices outside the M25 is by arrangement and may incur courier charges.

TDL COLLECT Online Courier Booking is a time saving new service at **www.tdlpathology.com/couriers**. For your practice's Username and Password please contact Chris Tanalega on 020 7025 7929 or chris.tanalega@tdlpathology.com.

Our couriers are trained to Health and Safety guidelines and maintain our commitment to customer service. For added convenience to doctors and their patients, we also collect samples directly from patients' homes, offices or hotels within the M25.

To arrange courier collection of samples from other areas in the UK please telephone **020 7307 7373**.

High risk samples should be clearly labelled and packed separately from other samples.

TDL Collect cannot transport samples containing Hazard Group 4 pathogens, such as Ebola fever or Viral Haemorrhagic Fever.

TDL COLLECT UK NUMBER: 020 7307 7373

SAMPLE PACKING

Samples need to be transported for subsequent processing and testing. Transport systems will be various and cover both long or short distances.

Samples need to be collected and packed into appropriate sample containers provided by the laboratory in order to maintain integrity of the sample(s). Attention needs to be given to temperature, special transport containers and time limitations.

Clinics, practices and laboratories who are posting or transporting samples by air, sea, rail and road between local, regional and reference laboratories, or between laboratories in other countries, must adhere to a number of regulations. These regulations are designed to deal with transportation accidents and spills, reduce biohazards and keep samples intact for testing.

Regulations are given by several sources including

- National transport regulations
- IATA
- Rail and road traffic agencies
- Postal services

Compliance is mandatory in order to reduce risk to couriers, carrier, laboratory staff and passengers.

Sample transport requirements are based on the category of samples being transported. Infectious substances are classified as Category A or Category B.

TDL does not arrange for transport of Category A samples (infectious substances capable of causing permanent disability or life threatening or fatal disease to humans or animals).

Instruction and packaging for Category B is provided, covering Biological Substances, UN number UN 3373.

PACKAGING REQUIREMENTS

There are specific packaging instructions and labelling requirements requiring triple packaging.

- 1 Primary leak-proof container tube or vial containing the sample must be placed inside a ziplock specimen bag with absorbent material
- 2 Secondary watertight container, with absorbent material, intended to protect the primary container
- 3 Outer container protects the secondary container

There are specific packaging instructions for frozen samples requiring shipment using BioFreeze bottles, or Dry Ice.

For information please contact the Referrals Dept (ReferralsOffice@tdlpathology.com)

POSTAL PATHOLOGY

Royal Mail Tracked 24®



Postal pathology services should be considered by all practices in the UK who need a rapid delivery service to the laboratory. Changes with Royal Mail mean that ALL pathology postal packs are now made up with **Tracked 24 returns**. This provides a particularly suitable method of transport for any healthcare organisation. Postal pathology with **Tracked 24 returns** provides:

- Simple and convenient sample handling throughout the UK for most tests.
 It is not suitable for microbiology or coagulation samples
- Scope for large and small numbers of samples
- Next morning delivery
- Allows patients and practices to track samples through the Royal Mail system
- Samples can be posted from any Royal Mail post box, including COVID-19 antibodies
- Designated **Priority boxes** for COVID-19 PCR (swab) kits.
- From 1st January there will be a charge of £2.26 for each Royal Mail Tracked 24 pack.
 This charge will be itemised in monthly invoices to the practice or patient, as requested.

DX SYSTEM NEW

DX is a well known next-day courier of Category B specimens – transporting biological samples in compliance with the industry's highest regulations. DX is compliant to IATA regulations, is audited independently by Dangerous Goods Safety Advisors. They work with a combination of large health organisations and smaller, independent laboratories to ensure the safe delivery of specimens every year.

TDL's DX Address is **DX 340201, St Pancras 90 WC**.

PATHOLOGY CONSUMABLES/REQUEST FORMS/POSTAL PACKS

Our Stores Department provides all appropriate sample collection consumables required for sample collection. Orders will be sent same or next day and can be made by telephone (020 7307 7373), e-mail (supplies@tdlpathology.com) or fax 020 7307 7340. There is a Supplies Order Form at the back of this Laboratory Guide.

REQUESTING AND REPORTING OPTIONS

We continually review and update our IT Services for receiving requests and reporting results electronically between practices and the laboratory. A number of innovative report formats are now available.

Encrypted Email

Results will be sent in encrypted format to any number of predetermined email addresses. Copy reports will be emailed automatically to email addresses on the system.

Link to Practice Management System

Bidirectional requests and results can be delivered electronically to a number of integrated practice systems. Practice software that accepts data in an HL7 format can be linked to receive results from the laboratory.

All TDL systems are accredited to the latest International Standard for Information Security ISO/IEC 27001:2013.

TDL e-View

Registered users can view all their results online. This is a secure Login/Password protected look-up system, with a cumulative results reporting function. Results can be accessed any time, from anywhere, through the internet.

Printed Copy

Results are posted out on the day they are reported.

TDL Portal

This provides the most accurate option for clinics without a practice management system. For information about this option please contact portal@tdlpathology.com.

EMAILED RESULTS INCORPORATING YOUR LOGO

If your practice or company receives results by email, and would like these personalised with your logo, simply email your company details and logo in GIF format to logo@tdlpathology.com.

TDL WEBSITE: RELAUNCHED FOR 2020/21

The TDL website at **www.tdlpathology.com** gives updated details of our tests – sample types, turnaround times and special instructions. A new Specialities section provides a new way to find tests you need, and a Services section has additional information for TDL Collect, Postal Pathology and TestGuide app. Reference Ranges are given on the website or can be requested by emailing refranges@tdlpathology.com.

TDL PATHOLOGY HANDBOOK

With more than, 1000 entries and 1100 pages covering pathology tests, methods and disease conditions, the Handbook provides comprehensive detail about the range of tests and services offered by the laboratory. Email handbook@tdlpathology.com for more information.

TDL TESTGUIDE APP

Available for iOS and Android, the TDL TestGuide app covers the full content of the Handbook but is also continually updated with new or revised entries on a regular basis.

If you would like to register for the app, it is straight forward to install this from an appropriate app store for your own device. Email testquide@tdlpathology.com for more details.

User feedback for the TDL website, Pathology Handbook and TestGuide app is always welcome, please send suggestions and comments to tdl@tdlpathology.com.

FEES FOR PATHOLOGY

Fees can be paid directly by patients or by the practice, clinic or requesting organisation. A payment instruction clearly identifying to whom invoices need to be sent must be given with each patient's request.

Patients are normally invoiced within 7 days to the address provided by the patient or practice. Their pathology fees include a standard credit/administration charge.

Receipts for insurance purposes are sent, if requested. Patients visiting Wimpole Street for sample taking have the opportunity to settle their pathology fees at the time of their visit. A credit/administration fee is raised for invoices sent to patients. All normal credit, debit or chargecards are accepted and payment can be made by following the telephone payment instructions given with each invoice.

The Terms and Conditions appearing on pages 207-213 of this Laboratory Guide shall apply to the services we provide to you, unless otherwise agreed.

PROTECTION OF PERSONALLY IDENTIFIABLE INFORMATION

The General Data Protection Regulation (GDPR) came in to force in May 2018 and has had a significant impact upon the way that personal data is managed; placing legal requirements upon data processors and controllers to manage that information securely, maintain records of the processing that is carried out, and report when breaches of the regulation do occur. This has impacted the way many businesses operate, and is not restricted to the healthcare sector.

The GDPR requirements have been implemented within the context of a mature ISO 27001 Information Security Management System – the globally accepted standard by which information is secured. This ensures that senior management have regular visibility of the threats to the confidentiality, availability and integrity of the information that we process, and are able to steer the efforts of their teams to provide an efficient service that places the confidentiality of our customers and their patients at the heart of everything we do.

In order to support our customers compliance with the regulation and as a part of a wider GDPR compliance project TDL has updated its standard terms and conditions to include revised data processing clauses, which are mandatory when providing personal data to another organisation.

WHO TO ASK FOR HELP

24 hour Telephone (Main Switchboard/All Services): 020 7307 7373

Fax: 020 7307 7374

CEO	David Byrne	david.byrne@tdlpathology.com
Group Laboratory Director	Tim Herriman	tim.herriman@tdlpathology.com
Director of Sales/Service	Annette Wilkinson	annette.wilkinson@tdlpathology.com
Director of Genetics & Molecular Pathology	Dr Lisa Levett	lisa.levett@tdlpathology.com
Chief Information Officer (IT)	John Matthews	john.matthews@tdlpathology.com
HEADS OF SUPPORT DEPARTMENTS		
Group Laboratory Operations Manager	Lisa Manze	lisa.manze@tdlpathology.com
Director of QMG	Emer Nestor	emer.nestor@tdlpathology.com
Patient/Doctor Invoices	Aneta Kontrova	aneta.kontrova@tdlpathology.com
Logistics/Couriers	Steve Kettle	steve.kettle@tdlpathology.com
Patient Reception/Home Visits	Eileen Flatley	eileen.flatley@tdlpathology.com
Call Centre	Chris Tanalega	chris.tanalega@tdlpathology.com
IT Operations/Customer Service	Rochelle Fakhri	rochelle.fakhri@tdlpathology.com
Sample Reception	Aileen Francis	aileen.francis@tdlpathology.com
Referrals Department	Maulik Trivedi	maulik.trivedi@tdlpathology.com
Human Resources	Matthew Gibbins	matthew.gibbins@tdlpathology.com
HEADS OF LABORATORY DEPARTMENTS (LON	DON)	
Haematology	Billy Janda	billy.janda@tdlpathology.com
Biochemistry	Dayan Lloyd-Hennie	dayan.lloyd-hennie@tdlpathology.com
Microbiology	Alan Spratt	alan.spratt@tdlpathology.com
Andrology	Andrew Dawkins	andrew.dawkins@tdlpathology.com
Cytology	Margaret Morgan	margaret.morgan@tdlpathology.com
Immunology/Virology	Kushen Ramessur	kushen.ramessur@tdlpathology.com
Cytogenetics	Rebecca Watts	rebecca.watts@hslpathology.com
Molecular Genetics	Dr Stuart Liddle	stuart.liddle@tdlpathology.com
TDL Trials	Abraham Roodt	abraham.roodt@tdlpathology.com

Night Service TDL MANCHESTER

Operational Site Lead	Diane Benson	diane.benson@tdlpathology.com
Systems Manager	Andy Leeson	andy.leeson@tdlpathology.com
SRA Manager	Georgina Arnold	georgina.arnold@tdlpathology.com
Quality Manager	Eamonn Donnellan	eamonn.donnellan@tdlpathology.com
Courier Control	Marc Rennard	marc.rennard@tdlpathology.com

sanjiv.sawock@tdlpathology.com

Sanjiv Sawock













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8511

The Doctors Laboratory is committed to providing doctors with pathology of the highest quality. The quality of results is of fundamental importance and the laboratory operates to stringent technical and administrative standards.

Internal quality assurance is achieved by strict adherence to standard operating procedures for all analytical processes. TDL participates in recognised National External Quality Assessment Schemes. These schemes are subscribed to by NHS and private laboratories. Results are subjected to strict internal and external quality control. Details of the laboratories to whom TDL refers specialist testing are available from TDL Referrals. These laboratories are UKAS accredited or of equal accreditation status. Details of the tests that are referred are given on the TDL website. QA is administered by TDL's Quality Management Group (QMG) who also adhere to regulatory and accreditation requirements.

BIOCHEMISTRY: UKNEQAS, WEQAS, RIQAS, BIORAD for

ACF

AFP/CEA & HCG

Antibiotics (Gentamicin, Vancomycin and Amikacin)

Anti-Hbs Detection

Ammonia

Autoimmune (RF and TPO)

B2 Microalobulin

Cardiac Markers

Clinical Chemistry

CMV lqG/lqM

CRP & Ultra-Sensitive CRP

CSF

Cyclosporin and Tacrolimus

DEGAS

Diagnostic Serology Exanthem

Diagnostic Serology Hepatitis

Drugs of Abuse

Fthanol

Faecal Markers for Inflammation (Calprotectin)

Free Beta HCG and PAPP-A

GFR

Glucose/Glucometer Glycated Haemoglobins **Guildford Peptides**

Haematinics

Healthcontrol Therapeutic Drugs Screen (TDM)

Hepatitis A (with B and C)

Hepatitis B Serology Hepatitis C Serology

HIV Serology

Homocysteine

HTI V

IGF-1

Immunity Screen

Lipase

Lipid Investigations

NT-Pro BNP

Paediatric Bilirubins

Parasitology

Peptide Hormones

PSA. Free PSA

PTH. ACTH and hCT

Rubella IgG Serology

Salicylate and Paracetamol

Specific Proteins

Steroid Hormones

Syphilis Serology

Thyroglobulin Surveys

Thyroid Hormones

Total IgE

Toxoplasma IqG/M Serology

Tumour Markers

Toxoplasma IgM Serology

Toxoplasma IgG Serology

Trace Elements

Urine Chemistry

Vitamin D (25 OH)

HAEMATOLOGY: UKNEQAS for

Automated Differential Leucocyte Count

Blood Film Morphology

Coagulation (Including PoCT Coagulation)

EBV Mononucleosis

ESR and NRBC (nucleated Rbc)

Flow Cytometry

Leukaemia immunophenotyping

Myeloperoxidase

Iron stain

Full Blood Count

Haematology

Haematology Analysis

Malaria

Parasite Films

Reticulocyte

Sickle Screening

Thrombophilia Screening

Factors assays:

Von Willebrand (vWD) screen

Anti-Xa assays

Plasma viscosities

ADAMTS-13 activity

ADAMTS-13 antibody

Heparin/Platelet Factor 4 Induced Antibodies

Platelet function analysis (RCPA)

Lupus anticoagulant:

Taipan Venom Time

DRVVT assay

GENETICS AND MOLECULAR VIROLOGY

MOLECULAR GENETICS

Acquired array (CLL/MDS)

Acute Leukaemia FISH pilot

Acute Lymphoblastic Leukaemia (ALL)

- G banding and FISH

BoBs Rapid Aneuploidy detection

Chlamydia & Gonorrhoea detection by PCR

Constitutional Clinical Cytogenetics

(Rounds for Amniocentesis, CVS,

Solid Tissue, Blood, Array CGH)

Cystic Fibrosis

Duchenne/Becker Muscular Dystrophy

Hereditary Haemochromotosis (C282Y+H63D)

genotyping + reporting

HLA Class I (HLA-A, HLA-B, HLA-C)

Tissue Typing (low resolution)

HLA Class II (HLA-DRB1, HLA-DQB1)

Tissue Typing (low resolution)

HLA-B27 Genotyping

HLA-B57*01 Genotyping

HLA+ Disease Typing

Cytochrome P450 2D6/2C19 genotyping

Human Papillomavirus DNA

Mature B & T cell Neoplasms -

FISH for CLL and Lymphoma

 ${\it Mature B\&T cell Lymphoma-G-banding}$

Myeloid (AML/MDS/CML) - G-banding and FISH

Myeloma - sample FISH set up

and analysis plus online

NGS AML gene panel

NIPT for aneuploidies

NIPT for sexing

Paternity Testing

Prader-Willi and Angelman Syndromes

QF-PCR Aneuploidy Detection

Sexually Transmitted Diseases (CT/NG/MGEN/TV)

Spinal Muscular Atrophy

Thrombophilia (Factor II, V, MTHFR)

Y Microdeletion PCR Assay

MOLECULAR VIROLOGY

Atypical Mycobacterium

Adenovirus DNA Viral load

Bacterial 16S

B19 virus DNA Viral load

BK virus DNA Viral load

CMV DBS (dried blood spots)

CMV DNA Plasma Viral load

CMV DNA Whole Blood Viral load

CMV Resistance

EBV DNA Plasma Viral load

EBV DNA Whole Blood Viral load

Enterovirus RNA

Gastroenteritis Virus Panel

Hepatitis B Genotyping

Hepatitis B Drug Resistance Typing

Hepatitis B Viral Load

Hepatitis C genotyping

Hepatitis C Resistance genome detection (NS5a & b)

Hepatitis C Resistance Typing (NS3 & NS5a)

Hepatitis C Viral Load

Hepatitis D Virus Viral load and Qualitative PCR

Hepatitis E Virus Viral load and Qualitative PCR

HIV-1 Drug Resistance (Pol)

HIV-1 Drug Resistance (Integrase)

HIV-1 RNA Viral load

HIV-1 RNA Qualitative PCR

HIV-1 Tropism Genome Detection

HIV-2 Viral load and Qualitative PCR

HSV 1&2 DNA

HSV Drug Resistance

Human Herpes virus 6 DNA

Influenza Haemagglutinin typing

JC virus DNA

Measles and Mumps PCR

MERS Coronavirus

Parechovirus RNA

Respiratory panel I

Respiratory panel II

SARS-CoV-2 (COVID-19) PCR/NAAT

SARS-CoV-2 (COVID-19) antibodies

Syphilis PCR

Transplantation Virus Panel

VZV DNA

MICROBIOLOGY

Laboratory Quality Scheme:

Helicobacter pylori antigen from faeces

Polarising crystal microscopy from synovial fluid

Streptococcus pyogenes (Group A) detection

in pharyngeal samples

Surveillance for multi drug resistant bacteria

UKNEQAS:

Clostridium difficile detection and toxin testing

Faecal parasites

General bacteriology

0 '' ' ''

Genital pathogens MRSA screening

Microbial susceptibilities

Mycobacterial microscopy

Mycobacterial culture and molecular detection

Antifungal assays

Antifungal susceptibilities

Cryptococcal antigen

Fungal culture

Fungal biomarkers

Urinary antigen

WEQAS POCT:

Urinalysis

QCMD:

Dermatophyte PCR

PCP PCR

Atypical pneumoniae PCR

IMMUNOLOGY

UKNEQAS - General Immunology for:

Allergen Component Testing

Autoimmune Serology ANCA/GBM Antibodies

Bullous Dermatosis Antibodies

Allergen Specific IgE Antibodies

Ner General Autoimmune Serology

Anti-Phospholipid Antibodies (ACAB)

Nuclear and Related Antigens

IGRA TBQ

Instrinsic factor

Islet Cell Antibodies (Diabetic Marker)

Myositis Antibodies

Specific Microbial Antibodies

C1 Esterase Inhibitor

Functional and Complement

Syphilis (TPPA and RPR)

Lyme (IgG and IgM)

Hepatitis C

Hepatitis E (IgG and IgM)

EUROQAS:

Liver Blot

UKNEQAS - Infectious Immunology for:

HIV Serology/POCT

Immunity Screen - VZV, Parvo Viruse, EBV

Chlamydia Detect

Varicella Zoster (IgG) Serology

Parasite Serology

Chlamydia & Gonorrhoea (NAAT/PCR)

RIQAS Scheme:

Procalcitonin

RCPAQAP Scheme:

Brucella Serology

Legionella (IgG) Serology

Scleroderma Antibodies

Striated Muscle Antibodies

INSTAND Scheme:

Adrenal Antibodies

Hepatitis E Serology

RNAP Antibodies

CSCQ Scheme:

Lyme Serology

Laboratory Quality Scheme:

Herpes Simplex Virus

Cytomegalovirus

Antistreptolysin O Titre

Helicobacter Pylori IgG Antibodies

ENDOCRINOLOGY: UKNEQAS for

Steroid Hormones

Peptide Schemes 1 to 4

Thyroid Scheme

Allergens Scheme

SHBG

Prostate Specific Antigen

Tumour Markers

PTH

Specific IgE/Total IgE

AFP/CEA

CYTOLOGY: EQA, TEQA for

NHSCSP (EQA for Gynaecological Cytopathology)

NHSCSP (TEQA for PAP stain)

Hologic Imager stain (TEQA)

NEQAS:

Urine Cytology

ANDROLOGY: UKNEQAS for

Semen Analysis Scheme

Information security:

Accredited by British Standards Institute

ISO/IEC 27001:2013

LINKS TO THE UKAS SCHEDULES OF ACCREDITATION

HSL Blood Sciences (8169)

 $https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8169\%20 Medical\%20 Single.pdf$

HSL Infection Sciences (8860)

 $https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8860\%20 Medical\%20 Single.pdf$

HSL Molecular Pathology and Genetics (8059)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8059%20Medical%20Single.pdf

TDL Manchester (8812)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8812%20Medical%20Multiple.pdf

TDL Andrology (10199)

 $https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/10199\%20 Medical\%20 Single.pdf$

HSL Cytology (8511)

https://www.ukas.com/wp-content/uploads/schedule_uploads/00007/8511%20Medical%20Single.pdf

MEASUREMENT UNCERTAINTY

Medical laboratories are responsible for ensuring that test results are fit for clinical application by defining analytical performance goals and selecting appropriate measurement procedures. All types of measurement have some inaccuracy due to bias and imprecision; therefore measurement results can only be estimates of the values of the quantities being measured. To properly use such results, medical laboratories and their clinical users need some knowledge of the accuracy of such estimates.

The complete result of a measurement is a value, a unit and an estimate of uncertainty. This estimate of uncertainty is conventionally referred to as Measurement Uncertainty (MU) and incorporates the cumulative range of factors involved in the testing procedure itself in addition to consideration of the inter-individual and intra-individual biological variation which will potentially influence the overall test result. Evaluating measurement uncertainty is an ISO 15189:2012 accreditation requirement.

In terms of MU determined by the TDL/HSL group of laboratories, it should be noted all assays are performed in strict accordance with the manufacturers' instructions. MU, which has been estimated for each assay during the verification procedure, is reviewed at regular intervals to ensure that MU values do not exceed the pre-defined maximum allowable uncertainty for each assay. Overall assay performance is also regularly monitored through internal quality control (IQC) and external quality assessment (EQA) schemes and incorporated in test result interpretation. MU for individual assays is available upon request.

SAMPLE REJECTION CRITERIA

Sometimes tests cannot be performed in the laboratory if samples fall short of the quality, volume or other eligibility criteria. In these cases, the laboratory may need to reject the samples, and not carry out processing. Sometimes the laboratory is able to rectify a situation — and although turnaround times may be affected, it avoids having to arrange for samples to be taken again.

Summary List for Sample Rejection

- Incorrect sample types received:
 - Basic incorrect blood tube/other sample.
 - Samples without the appropriate preservative (e.g. acidified urine samples).
 - Samples that are received ambient, when a frozen sample is required.
 - Samples that are received unprotected from light, when they are required to be covered at the point of venepuncture.
- Samples in incorrect containers (e.g. cervical cytology must be a ThinPrep vial; urine cytology must be in a uricyte container).
- Insufficient sample received.
- No sample received.
- Labelling or form issues (mislabelled/unlabelled/no forms/no clinical information).
- Clotted/haemolysed/lipaemic/icteric samples.
- Sample is broken or has leaked in transit.
- Stability time has been exceeded. Stability time is test dependant, and also refers to tests that can only be carried out on certain days of the week.

- Sample contamination (e.g. being in the same bag as a leaking sample).
- Samples are high risk or infectious.
- Samples that are received in expired tubes.

Department Specific

- Sample Reception will not accept samples packaged with needles of any kind.
- Haematology cannot accept frozen whole blood for testing.
- Coagulation cannot accept over or under filled samples for testing.
- Coagulation cannot accept previously frozen samples that have thawed in transit.
- Biochemistry cannot accept previously frozen samples that have thawed in transit.
- Biochemistry cannot accept samples that display antibody interference.
- Biochemistry cannot accept samples that have had separation delays/un-centrifuged samples that have been stored in the fridge.
- Biochemistry cannot accept paraprotein resulting in viscous samples.
- Biochemistry cannot accept CSF protein that is blood stained.
- Immunology cannot accept TBQ kits that:
 - Do not contain all of the appropriate tubes.
 - · Are incubated for more than the specified 16 hours.
 - Have passed the incubation time period.
 - Are over or under filled.
- Microbiology cannot accept samples in non-sterile containers or in formalin.
- Referrals cannot accept samples without three points of identification for DRP testing.
- Referrals cannot accept samples that are not labelled by hand for blood group testing.
- Molecular Pathology cannot accept samples for Haemophilia testing without informed consent.
- Cervical Cytology cannot accept over or under filled samples for testing.
- Cervical Cytology cannot accept samples received within three months of the previous test in order to allow epithelial cells to regenerate.
- Urine cytology cannot accept delayed samples unless they have been refrigerated.

Samples deemed to be PRECIOUS (e.g. CSF, fluid, tissue, bone marrow and paediatric samples) will not be discarded by the laboratory. Results will include a comment relating to the condition of the sample (e.g. sample unlabelled).

CONSULTANT ADVICE AND OPINION

Each department in the laboratory is consultant led. For doctors wanting clinical advice or professional support, TDL consultants can be contacted via the laboratory. Contact the consultant Haematologist to make arrangements for venesections for Haemochromatosis and polycythaemia.

TDL MEDICAL CONSULTANTS

GROUP MEDICAL DIRECTOR

Dr Rachael LiebmannBSc Hons, MB, BCh, BAO, FRCPath
FAcadMed. SFFMLM

HAEMATOLOGY/ BLOOD TRANFUSION

Professor Marie Scully MRCP, FRCPath

Dr John Paul Westwood

Dr Adrian Bloor FRCP. FRCPath

Dr Clare Barnes MRCP, FRCPath

Dr Vivienne Andrews FRCPath

ANDROLOGY

Dr Sheryl Homa

BIOCHEMISTRY

Dr Paul Holloway

Dr Royce Vincent FRCPath

Dr Denise Darby MRCP. FRCPath

Professor Carel le Roux

FRCPath

Dr Gilbert WeiringaPhD MRCPath

Dr Frank Geoghan MRCPath

MICROBIOLOGY

Dr Robin Smith

Dr Sophie Collier

IMC

Dr Vanya Gant FRCPath

Dr Michael Kidd FRCPath

Dr Damien Mack FRCPath

Dr Indran Balakrishnan

Dr Simon Warren

Dr Stephen Mepham

Dr Johnathan Lambourne

Dr Emanuel Wey

FRCPath

FRCPath

Dr Edward Kaczmarski FRCPath

FLOW CYTOMETRY

Dr Raj Gupta MRCP, FRCP, FRCPath

Dr Geraldine Soosay

IMMUNOLOGY

Dr Scott Pereira FRCPath

Professor Suranjith Seneviratne DPhil (Oxon) FRCP, FRCPath

VIROLOGY

Dr Mark Atkins FRCPath

CYTOLOGY

Dr Mary Falzon MRCS, LRCP, FRCPath

Dr Rachael Liebmann BSc Hons, MB, BCh, BAO, FRCPath FAcadMed. SFFMLM

Dr Geraldine Soosay

GENETICS: MOLECULAR/ CYTOGENETICS

Professor Michael Patton FRCP, FRCPCH Consultant Clinical Geneticist

Special instructions for samples

- Contact the laboratory for special sample tubes/ containers/instructions.
- 2 Confirmation of not negative drug screens by LCMS/MS may take up to 5 days.
- 3 Clinical history essential and protect from light.
- 4 Send to the laboratory without delay.
- 5 Do not send sample to the laboratory between Friday noon and Monday morning.
- 6 Contact the Referrals Department before taking and sending sample to the laboratory.
- 7 Sample should be separated and frozen if sending overnight.
- 8 DRP Form required. DRP Form can be found at the back of the guide.
- 9 Clinical history must be provided.
- 10 Contact the laboratory for special stability tubes for lymphocyte subsets – or take an EDTA sample and ensure same day delivery to the laboratory, Monday to Friday noon (do not send sample between Friday noon and Monday morning).
- 11 Patient consent required. Consent Form can be found at the back of this guide.
- 12 Please provide one sample for each person being tested.
- 13 Protect from light.
- 14 Provide details of travel history.
- 15 Ammonia

Sample: EDTA plasma only. Full tubes and tightly stoppered. On ice, centrifuged and analysed 20-30 mins post venepuncture (or plasma can be frozen). If haemolysed gives falsely high results. Patient: Fasting. Avoid smoking.

16 Lactate

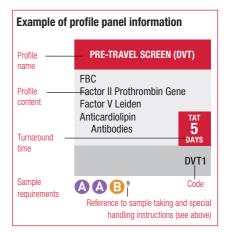
Sample: Fluoride oxalate plasma only.
On ice and separate from cells 15-30 mins, analyse promptly. Handle with care as sweat contains large amounts of lactate. No tourniquet. Patient: Rest 30 mins prior to test.

17 Homocysteine Should be spun and separated with 1 hour of venepuncture.

18 Citrate Samples

Samples should be double spun and separated and frozen within 4-8 hours of sample taking, if a delay is expected with transportation to the laboratory, samples must be transported as frozen.

- 19 Must include patient's age, height and weight.
- 20 Sample types: FCRU or PCR swab or TPV or Semen.
- 21 Urine cytology container, ideally first catch, mid-morning specimen.
- 22 Must be fresh.
- 30 Collect sample at end of exposure.
- 33 Sample must be labelled by hand with first name, family name, gender and date of birth detailed on sample and form. Do not use labels other than the tube label.
- 34 Samples must arrive in the laboratory on the same day of sample taking or contact the laboratory.
- 35 Patient should be fasting and resting for 30 mins before sample taking. Samples need handling urgently.
- 36 Renin: Sample collected either upright/active or resting/supine (3 hours lying).
- 37 Provide sample time and date of collection.
- 38 EDTA sample should not be separated: send whole blood.
- 39 Urgent samples have a 3 day TAT if genotype is required for prenatal diagnosis or two weeks TAT if urgent for other factors.
- 40 Informed Consent is required for these tests.
- 41 Recommendation for patient to attend Patient Reception for sample taking.
- 42 LGV can be added to a positive chlamydia sample using the same swab if requested within 4 days of receipt of result.



TDL Screening Profiles DL1-DL12

BIOCHEMISTRY HAEMATOLOGY DL3 **BIOCHEMISTRY** (24 PARAMETERS) DL₂ **PROFILE** DL₁ **PROFILE & HAEMATOLOGY PROFILE** TAT FBC with 5-part Diff 4 **ESR Urea and Electrolytes HAEMATOLOGY** HOURS Sodium, Potassium, Chloride, FBC with 5-part Diff Bicarbonate, Urea, Creatinine, **ESR** DL3 **BIOCHEMISTRY** Liver Function Tests A **Urea and Electrolytes** Bilirubin, Alk Phos, AST, ALT, Sodium, Potassium, Chloride, Gamma GT, Total Protein, BIOCHEMISTRY Bicarbonate, Urea, Creatinine, Albumin, Globulin (16 PARAMETERS) eGFR DL4 Cardiac/Muscle Enzymes & HAEMATOLOGY Liver Function Tests LDH. CK **PROFILE** Bilirubin. Alk Phos. AST. ALT. **Bone Markers** HAEMATOLOGY Gamma GT. Total Protein. Calcium, Phosphate, Uric Acid FBC with 5-part Diff Albumin, Globulin **ESR** Glucose Cardiac/Muscle Enzymes **Triglycerides** LDH. CK BIOCHEMISTRY Cholesterol Bone Markers Renal Function Iron Calcium, Phosphate, Uric Acid Urea, Creatinine, eGFR **Total Iron Binding** Liver Function Tests Glucose Bilirubin, Alk Phos. AST, ALT, **Triglycerides** Gamma GT, Total Protein, Cholesterol Albumin, Globulin Iron/TIBC TAT TAT **Bone Markers** 4 4 Calcium, Phosphate, Uric Acid HOURS HOURS Glucose DL₁ DL₂ Triglycerides Cholesterol HDL Cholesterol HDL Cholesterol DL1L DL₂L 4 LDL Cholesterol LDL Cholesterol **HOURS** Non-HDL Cholesterol Non-HDL Cholesterol BG A B G DL4 **BIOCHEMISTRY GENERAL WELL** DL₆ HDL Cholesterol DL5 & HAEMATOLOGY DL4L **PERSON PROFILE** LDL Cholesterol **POSTAL PROFILE** Non-HDL Cholesterol DL2 As DL4 A B G FT4/TSH DL5/DL5L do not include ESR and Ferritin Phosphate as these results may be more affected by 4 4 overnight transit times. HOURS DL₆ DL₅

DL6L

ABG

HDL Cholesterol

LDL Cholesterol

Non-HDL Cholesterol

HDL Cholesterol

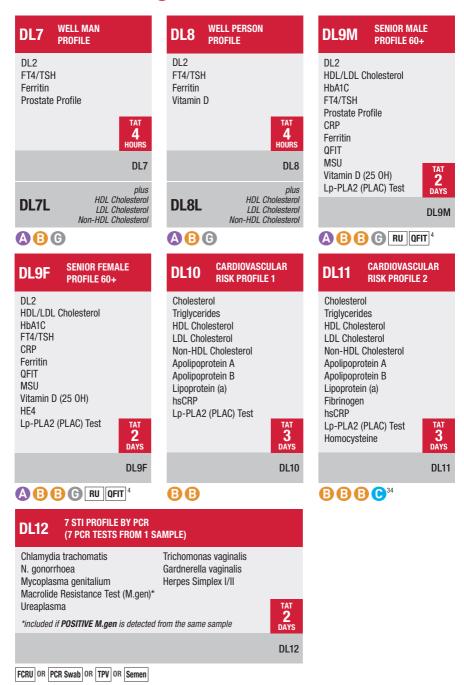
LDL Cholesterol

Non-HDL Cholesterol

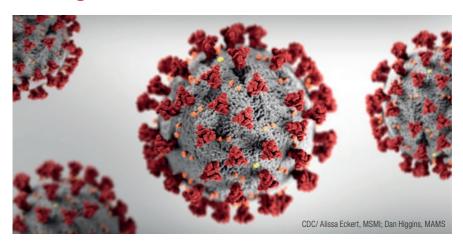
DL5L

A B G

TDL Screening Profiles DL1–DL12



Testing for COVID-19 (SARS-CoV-2)



Illness caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has been termed 'COVID-19', derived from 'coronavirus disease 2019.' The number and range of tests for COVID-19 is developing apace, with emphasis on five key areas:

- · Performance of assay: sensitivity, specificity, accuracy
- Speed of processing how quickly can results be reported
- Sample type and ease of specimen collection
- Choice of tests: which test to use, and when?
- Price: dependant on method and manufacturer: PCR, Antigen and Antibody

TDL will update on testing developments throughout the year - and are currently running:

COVID-19 (SARS-CoV-2) RNA by PCR NEW

Results will be reported as Positive, Not Detected or Invalid if a test has failed. Always provide the patient's address and contact phone number.

Test Code: NCOV

Sample Type	PCR swab (COVID-19 Royal Mail Priority Tracked 24 kits provided)	
Performance	Sensitivity 98.0%, Specificity 100%, Accuracy 98.8%	
Analysers	Hologic Panther SARS CoV-2 Assay UKAS Accredited Hologic Panther Fusion UKAS Accredited QuantStudio/Reagents Thermofisher UKAS Accredited	
Turnaround time	Within 48 hours of receipt of sample	

SEE PAGE 96 FOR DETAILS OF COVID TESTS

Testing for COVID-19 (SARS-CoV-2)

COVID-19 (SARS-CoV-2) Abbott IgG Antibody NEW

The Abbott IgG Antibody test is CE marked for venous samples, and one of the PHE selected antibody tests.

Test Code: GCOV

Sample Type	SST/Serum 😉 Venous (>14 days after onset of symptoms)
Performance	Specificity 99.1%, Sensitivity 97.5%
Analysers	Abbott Architect
Turnaround time	24 hours from receipt of sample

COVID-19 (SARS-CoV-2) Roche Elecsys Anti-SARS-CoV-2 Total Antibody

NEW

Roche Elecsys Anti-SARS-CoV-2 will additionally detect IgM antibodies, reporting both IgG and IgM as a TOTAL antibody result. The Roche Antibody test is CE marked for both **venous and capillary** samples, and is one of the PHE selected antibody tests.

Test Code: TCOV

Sample Type	SST/Serum 😉 Venous or Capillary (>14 days after onset of symptoms)
Performance	Specificity 100%, Sensitivity 97.4%
Analysers	Roche e801
Turnaround time	24 hours from receipt of sample

Self-collection CE marked IVD for COVID Postal kits

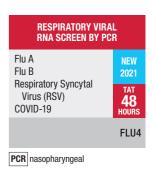
NEW

The kits include a Royal Mail Tracked 24 return label.

Respiratory Viral Profile NEW

PCR swabs or Antibody samples can be sent to the laboratory:

- with your practice's courier collection
- delivered to Patient Reception at 76 Wimpole Street W1G 9RT
- delivered to the HALO Laboratory (WC1H 9AX)
- delivered to TDL Manchester (M50 2GY)
- posted to the Halo Laboratory, using next day delivery Royal Mail COVID Priority Tracked 24, provided with the swab pack.



TDL reports all Antibody and PCR activity daily to Public Health England (PHE). It is a statutory requirement that laboratories notify this information and it is therefore essential that the patient's address and postcode are provided so that positive results can be followed by Test and Trace.

Biochemistry

TEST	CODE	SAMPLE REQS	TAT
5 HIAA	RU5H	PU ¹	5 days
5' Nucleotidase	5NT	В	5 days
6-Thioguanine Nucleotides	TGN	AA	2 weeks
21 Hydroxylase Ab's	21HA	(Frozen)	10 days
Acetylcholine Receptor Autoantibodies	ACRA	B 4	5 days
Acetylcholinesterase Isoenzymes	ACEI	AF	7 days
Acid Phosphatase – Total	APT	В	5 days
Adenosine Deaminase	AD	A / B / Fluid	3 weeks
Adiponectin	ADIP	В	2 weeks
Albumin	ALB	В	4 hours
Alcohol (Medical) [Do not use alcohol swab prior to sample taking]	ALC0	G 1	4 hours
Alcohol (Urine)	UALC	RU	4 hours
Aldolase	ALD0	В	5 days
Alk Phosphatase Isoenzymes	APIE	В	5 days
Alkaline Phosphatase	ALP	B	4 hours
Alpha 1 Antitrypsin (Serum)	A1AT	В	1 day
Alpha 1 Antitrypsin (Stool)	A1AF	RF	10 days
Alpha 1 Antitrypsin Genotype – PI*M, PI*S, PI*Z	GENE	A 9	4 weeks
Alpha 1 Glycoprotein	OROS	(Frozen)	5 days
Alpha 1 Microglobulin	A1MG	RU 1,22	10 days
Alpha 2 Macroglobulins	A2MG	B	5 days
Alpha Feto Protein (Maternal)	AFPM	B	4 hours
ALT (Alanine Aminotransferase) (SGPT)	ALT	В	4 hours
Aluminium (Blood)	ALUM	(8)	7 days
Amino Acid (Serum/Plasma)	AMIN	B	7 days
Amino Acid Quantitative (Urine)	UAAQ	RU	7 days
Amino-Laevulinic Acid (Urine)	RUAL	100mls PU	5 days
Ammonia	AMM0	(Frozen) 15	4 hours
Amylase	AMY	В	4 hours
Amylase (Urine)	UAMY	CU	4 hours
Amylase Isoenzymes	AMYI	В	5 days
Amyloidosis (Amyloid A Protein)	SAA	В	5 days
Androstanediolglucoronide	ANDG	В	3 weeks
Angiotensin II	ANG2	(Frozen)	2 weeks
Angiotensin Converting Enzyme	ACE	В	4 hours
Angiotensin Converting Enzyme – CSF	ACEF	CSF (Frozen)	2 weeks
Antimony (Urine)	ANTI	RU 30	10 days
Antimullerian Hormone (AMH Plus)	AMH	В	4 hours
AP50 Alternative Hemolytic Complement	AP50	(Frozen)	2 weeks
Apolipoprotein A1			O davia
	AP0A	В	3 days
Apolipoprotein B	APOA APOB	B B	3 days
Apolipoprotein B Apolipoprotein C			

Biochemistry

ARS ARSE ARYL AST RBJP	A or (1) RU 30 (1) 5,6	5 days 5 days 8 weeks
ARYL AST RBJP	5,6	
AST RBJP		8 weeks
RBJP	B	
	•	4 hours
	1 x 30mls (RU)	5 days
32MG	B	2 days
JB2M	RU	3 days
BGLU	(1) (1) 9,4	8 weeks
1C03	B	4 hours
BILE	B	4 hours
BIL	B	4 hours
BILI	B	4 hours
JBIL	RU	1 day
BIOT	(Frozen plasma) 4	3 weeks
BISM	B	5 days
BNP	B	4 hours
BALP	(Frozen)	2 weeks
BONE	B CU	4 hours
30N2	B	4 hours
BUN	B	4 hours
CRP	B	4 hours
ICRP	B	4 hours
C1E	(Plasma Frozen) 4,18	10 days
MCP	B	5 days
CADM	A or (1)	5 days
JRCD	RU 30	5 days
CA	B	4 hours
JCA	PU	4 hours
CACR	RU 🕒	4 hours
CDG	B	2 weeks
CDT	B 4	3 days
CENZ	B	4 hours
PP10	BB	3 days
PP11	B B B C 34	3 days
CARN	(Frozen Plasma)	10 days
CERU	В	1 day
CPP	B	STAT
CL	B	4 hours
CHO	B	4 hours
GENE	A A ⁹	4 weeks
CHRC	0	5 days
CHPS	B	4 hours
CHRO		5 days
	BEAM GGLU GGO3 GILE GILE GILI GILE GILI GILI GILI GILI	B2M RU GGLU

TEST	CODE	SAMPLE REQS	TAT
Chromium (Urine)	URCR	RU ³⁰	10 days
Chromogranin A	CGA	В	5 days
Chromogranin A & B	MTAB	J ¹	3 weeks
Citrate (Blood)	CITR	В	5 days
Citrate (Urine)	UCIT	CU (Frozen)	5 days
CK (MB Fraction)	CKMB	B	4 hours
CK Isoenzymes	CKIE	B	5 days
Cobalt (Blood)	COB	A	5 days
Cobalt (Serum)	COBB	В	5 days
Cobalt (Urine)	COBA	RU 30	5 days
Coenzyme Q10	CQ10	В	2 weeks
Cold Agglutinin	CAGG	J^1	5 days
Collagen (Type I, II, IV) Antibodies	COAB	В	10 days
Collagen Type 1 Cross-Linked N-Telopeptide – NTX	NTX	2nd EMU	2 weeks
Complement C1q	C1Q	В	5 days
Complement C2	C2	В	10 days
Complement C5	C5A	B	2 weeks
Complement C6	C6	(Frozen)*	5 weeks
Complement C7	C7	(Frozen)*	5 weeks
Complement C8	C8	(Frozen)*	5 weeks
Complement C9	C9	(Frozen)*	5 weeks
Complement Factor H	FACH	B	3 weeks
Copper (Serum)	COPP	B	5 days
Copper (Urine)	URCU	CU	5 days
Cortisol Binding Globulin	CBG	(Frozen)	1 month
Creatine Kinase (CK, CPK)	CKNA	В	4 hours
Creatinine	CREA	В	4 hours
Creatinine (Urine)	UCR	CU	4 hours
Creatinine Clearance	CRCL	○ CU	4 hours
Crosslaps (Serum DPD)	SDPD	(Freeze within 24 hours)	4 days
Cyclic Amp (Urine)	CAMP	CU (Frozen)	5 days
Cyclosporin (Monoclonal)	CYCL	A	1 day
Cystatin C	CYCC	В	5 days
Cystine – Quantitative (Beta-CTX)	QCYS	PU	5 days
Deoxypyridinoline (DPD) – Serum	SDPD	(Freeze within 24 hours)	4 days
Deoxypyridinoline (DPD) – Urine	DPD	EMU	4 days
Diabetic Profile 1	DIAB	A G	8 hours
Diabetic Profile 2	DIA2	(A) (G) RU	2 days
Electrolytes	ELEC	В	4 hours
Electrolytes (Urine)	UELE	CU	4 hours
ELF/Enhanced Liver Fibrosis	ELF	B	5-7 days

^{*} Separate and freeze within 2 hours after collection.

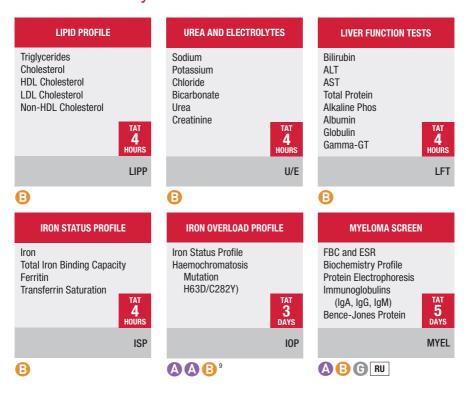
TEST	CODE	SAMPLE REQS	TAT
Eosinophil Cationic Protein	ECP	В	7 days
Faecal Fat (1 Day Collection)	TFFA	LF ⁶	5 days
Faecal Fat (3 day)	FFAT	LF ⁶	5 days
Faecal Lactoferrin	FLAC	RF	5 days
Faecal Sugar Chromatography	FCR0	RF (Frozen)	3 weeks
Faecal Urobilinogen	FUR0	RF	5 days
Fat Globules in Faeces	FGLO	RF	1 week
Ferritin	FERR	В	4 hours
Fibrotest (Liver Fibrosis)	FIBT	В	2 weeks
Fluoride (Urine)	UFL	RU	5 days
Folate (Red Cell)	RBCF	A	2 days
Folate (Serum)	FOLA	В	1 day
Free Fatty Acids	FFA	(Frozen) 1	10 days
Fructosamine	FRUC	В	1 day
Fructose – Plasma	FRU	G 7 (Frozen)	5 days
Galactose-1-Phosphate Uridyltransferase	GAL1	(1) 5,6	2 weeks
Galactosidase – Alpha*	GALA	J*	6 weeks
Gall Stone Analysis	RSTA	STONE	10 days
Gamma GT	GGT	В	4 hours
Gastrin	GAST	(Frozen)	5 days
Globulin	GLOB	В	4 hours
Glucagon	GLUG	J 1	10 days
Glucose	RBG	G	4 hours
Glucose Tolerance Test			See page 129
Haemochromatosis – HFE common mutations C282Y + H63D	HMD	A 9	3 days
Haemosiderin (Urine)	HSID	EMU	2 weeks
Haptoglobin	HAPT	В	5 days
HbA1c	GHB	A	6 hours
HDL Cholesterol	HDL	В	4 hours
HDL2 & HDL3 Fractions	HDLF	В	3 weeks
Homocysteine (Quantitative)	номо	B 17	1 day
Homocysteine (Urine)	HCYS	CU	2 weeks
Homovanillic Acid (HVA)	HVA	PU	5 days
Hyaluronic Acid	AHT	В	1 week
Hydroxybutyrate Dehydrogenase	HBD	(Frozen)	1 week
Hydroxyprolene	UHYD	CU	2 weeks
IgG Subclasses	IGSC	В	4 days
Immunoglobulin A	IGA	B	4 hours
Immunoglobulin D	IGD	B	5 days
Immunoglobulin E – Total	IGE	B	1 day
			,

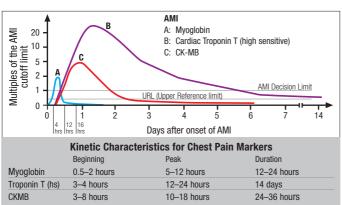
 ^{*} Sample must reach TDL Referrals Dept. urgently, to be tested within 24 hours of collection.
 Monday—Thursday only. Referrals to send immediately

TEST	CODE	SAMPLE REQS	TAT
Immunoglobulin G	IGG	В	4 hours
Immunoglobulin M	IGM	В	4 hours
Immunoglobulins (IgG, IgM, IgA)	IMM	В	4 hours
Insulin-Like Growth Factor 2	IGF2	B 6	1 month
lodide – Urine	UIOD	RU	1 week
lodine – Serum	IODI	В	1 week
Ionised Calcium	ICPA	В	5 days
Iron (TIBC included)	FE	В	4 hours
Iron Overload Profile	IOP	A B 9	3 days
Iron Status Profile	ISP	В	4 hours
Lactate (Plasma)	LACT	G 16	1 day
Lactate Dehydrogenase (LDH)	LDH	В	4 hours
Lactate Pyurvate Ratio	LPR	J ¹	4-6 weeks
Lactose Tolerance Test			See page 129
LDH Isoenzymes	IS0L	В	5 days
LDL7 Subfractions	LDL7	В	10 days
Lead (Blood)	LEAD	A	5 days
Lead (Urine)	URPB	RU	5 days
Leptin	LEPT	B 19	5 days
Leucine Amino Peptidase	LAP	B	5 days
Lipase	LIPA	B	4 hours
Lipid Profile	LIPP	B	4 hours
Lipoprotein (a)	LPOA	В	4 hours
Lipoprotein Electrophoresis	LEL	В	5 days
Lithium (take 12 hours after dose)	LITH	B	4 hours
Liver Fibrosis (Enhanced Liver Fibrosis ELF)	ELF	В	5-7 days
Liver Fibrosis Fibrotest	FIBT	В	2 weeks
Liver Function Tests	LFT	B	4 hours
Lp-PLA2 (PLAC) Test	PLA2	В	2 days
Lysosomal Enzyme Screen	LE	A A 6	2 months
Lysozyme	LYS0	В	5 days
Magnesium (Serum)	MG	В	4 hours
Magnesium (Urine)	URMG	PU	1 day
Manganese (Serum)	MANG	В	5 days
Mannose Binding Lectin	MBL	В	3 weeks
Mercury (Blood)	MERC	🛕 or 🕕	5 days
Mercury (Urine)	URHG	RU ¹	5 days
Methaemoglobin	METH	A	3 days
Methaqualone	METQ	RU	5 days
Methylmalonic Acid – Serum	MMAS	В	5 days
Methylmalonic Acid – Urine	MMA	CU	2 weeks
Microalbumin (Urine)	UMA	RU	4 hours
Mucopolysaccharides	MPS	RU (Frozen)	3 weeks
Myeloma Screen	MYEL	A B G RU	5 days

TEST	CODE	SAMPLE REQS	TAT
Myoglobin (Serum)	SMY0	B	4 hours
Myoglobin (Urine)	UMY0	RU	5-10 days
Newborn Screening Panel	GUTH	J 1	2 weeks
Nickel (Serum)	NICK	В	5 days
Nickel (Urine)	NICU	RU	10 days
NMP22 (Bladder tumour)	NMP	J ¹	4 days
Oligosaccharides	UOLI	RU	6 weeks
Orosomucoid (A1AG – Alpha 1 Glycoprotein)	OROS	(Frozen)	5 days
Osmolality (Serum)	0SM0	B	1 day
Osmolality (Urine)	ROSM	RU	1 day
Osteoporosis Screen	0PS	88	4 days
Oxalate (Plasma)	POXA	(Frozen)	7 days
Oxalate (Urine)	UOXA	PU	5 days
Pancreatic Peptide	PP	J	4 weeks
Parathyroid Related Peptide	PTRP	2ml (A) Plasma frozen (Freeze immediately) 1	2 weeks
PEth (Phosphatidylethanol)	PETH	A 38	5-7 days
Phencyclidine (PCP)	DUST	RU	5 days
Phosphate	PHOS	В	4 hours
Phosphate (24 hour Urine)	UPH	PU	4 hours
PLAC Test (Lp-PLA2)	PLA2	В	2 days
Plasminogen	PLAS	(Frozen plasma) 4	5 days
Plasminogen Activator Inhibitor – 1	PAI1	(Frozen plasma)	2 weeks
Porphyrin (Blood)	PORP	A 3	15 days
Porphyrins (Faeces)	FP0R	RF ³	3 weeks
Porphyrins Full Screen (Total: Urine, Stool, Blood)	PORS	♠ RU, RF³	3 weeks
Porphyrins Screen (Urine)	RPOR	RU ³	3 weeks
Potassium	K	B	4 hours
Pregnancy (Serum) [Quantitative]	QHCG	В	4 hours
Pregnancy Test (Urine)	PREG	RU	4 hours
Procalcitonin	PCAL	(Frozen) 4,7	1 day
Procollagen 1 Peptide N-Terminal (NTX)	P1NP	В	5 days
Procollagen III Peptide	PRC0	B	5 days
Propoxyphene	DPR0	RU	5 days
Prostatic Acid Phosphatase	PACP	(Frozen)	3 days
Protein (Urine)	UPRT	CU	4 hours
Protein 14.3.3 (Creutzfeldt-Jakob Disease)	CJD	CSF (Frozen)	5 weeks
Protein Electrophoresis incl. immunoglobin	PRTE	B	2-4 days
Protein Total (Blood)	PROT	B	4 hours
Protein/Creatinine Ratio (Urine)	UCPR	RU	4 hours
Renal Calculi Screen (Metabolic)	RSPR	J 6	5 days
Renal Stone Analysis	RSTA	STONE	10 days
Retinol Binding Protein	RBP	B	3 days
Salicylates	SALI	B	4 hours

Silver (Urine) USIL RU 5 days Sodium NA 3 4 hours Superoxide Dismutase Inhibitor SODI 2 / 1 5 days Thiopurine Methyl Transferase TPMT 3 5 days Tissue Polypeptide Antigen TPA 3 1 week Total Acid Phosphatase APT 3 5 days Total Bile Acid/Bile Salts BILS 3 1 week Total IgE IGE 3 1 day Transferrin TRAN 3 1 day Transferrin Electrophoresis TREL 3 2 weeks Triglycerides TRI 3 4 hours Triglycerides TRI 3 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Triglycerides TRI 3 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Triglycerides TRI 3 4 hours Trimethylaminuria (Fish Odour Syndrome)	TEST	CODE	SAMPLE REQS	TAT
Serum Free Light Chains SLC ③ 1 week Silver (Blood) SILV ⑤ 5 days Silver (Urine) USIL RU 5 days Sodium NA ⑥ 4 hours Superoxide Dismutase Inhibitor SODI ⑥/↑ 5 days Thiopurine Methyl Transferase TPMT ⑥ 5 days Tissue Polypeptide Antigen TPA ① 1 week Total Acid Phosphatase APT ② 1 week Total Igle IGE ① 1 day Transferrine TRAN ③ 1 day Transferrine TRAN ① 1 day Transferrine Electrophoresis TREL ② 2 weeks Triglycerides TRI ① 4 hours Triglycer	Selenium (Serum)	SELE	В	4 days
Silver (Blood) SILV 3 5 days Silver (Urine) USIL RU 5 days Sodium NA 1 4 hours Superoxide Dismutase Inhibitor SODI 3 (1) 5 days Thiopurine Methyl Transferase TPMT 3 5 days Tissue Polypeptide Antigen TPA 1 week Total Acid Phosphatase APT 3 5 days Total Bile Acid/Bile Salts BILS 3 1 week Total IgE IGE 3 1 day Transferrin TRAN 3 1 day Transferrin Electrophoresis TREL 3 2 weeks Triglycerides TRI 3 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Troponin T (High sensitive) TROT 3 4 hours 4 hours Tryptase STRY 3 2 days 2 weeks Tumour Necrosis Factor – Alpha TNF 3 (Frozen) ⁴ 2 weeks Urae Urae UREA 3 4 hours Urea UREA 3 4 hours Urea and Electro	Selenium (Whole Blood)	SELR	(A) or (1)	4 days
Silver (Urine)	Serum Free Light Chains	SLC	В	1 week
Sodium NA ③ 4 hours Superoxide Dismutase Inhibitor SODI ⚠/ ① 5 days Thiopurine Methyl Transferase TPMT ⑥ 5 days Tissue Polypeptide Antigen TPA ⑥ 1 week Total Acid Phosphatase APT ⑥ 5 days Total Bile Acid/Bile Salts BILS ⑥ 1 day Total IgE IGE ⑥ 1 day Transferrin TRAN ⑥ 1 day Transferrin Electrophoresis TREL ⑥ 2 weeks Triglycerides TRI ⑥ 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Triponin T (High sensitive) TROT ⑥ PU 6 weeks Troponin T (High sensitive) TROT ⑥ PU 6 weeks Triponin T (High sensitive) TROT ⑥ PU 6 weeks Triponin T (High sensitive) TROT ⑥ PU 6 weeks Troponin T (High sensitive) TROT <	Silver (Blood)	SILV	В	5 days
Superoxide Dismutase Inhibitor SODI ♠ (♣) 5 days Thiopurine Methyl Transferase TPMT ♠ 5 5 days Tissue Polypeptide Antigen TPA ♠ 1 1 week Total Acid Phosphatase APT ♠ 2 5 days Total Bile Acid/Bile Salts BILS ♠ 1 1 week Total IgE IGE ♠ 1 1 day Transferrin TRAN ♠ 1 1 day Transferrin Electrophoresis TREL ♠ 2 2 weeks Triglycerides TRI ♠ 4 hours 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU ♠ weeks Troponin T (High sensitive) TROT ♠ 4 hours 4 hours Tryptase STRY ♠ 2 days 2 days Tumour Necrosis Factor – Alpha TNF ♠ (Frozen) 4 2 weeks Urate (Uric acid) UA ♠ (Frozen) 4 4 hours Urea UREA ♠ (Uric acid acid acid acid acid acid acid ac	Silver (Urine)	USIL	RU	5 days
Thiopurine Methyl Transferase TPMT ♠ 5 5 days Tissue Polypeptide Antigen TPA ⑥ 1 week Total Acid Phosphatase APT ⑥ 5 days Total Bile Acid/Bile Salts BILS ⑥ 1 week Total IgE IGE ⑥ 1 day Transferrin TRAN ⑥ 1 day Transferrin Electrophoresis TREL ⑥ 2 weeks Triglycerides TRI ⑥ 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Troponin T (High sensitive) TROT ⑥ 4 hours Tryptase STRY ⑥ 2 days Tumour Necrosis Factor – Alpha TNF ⑥ (Frozen) ⁴ 2 weeks Urate (Uric acid) UA ⑥ 4 hours Ureeks Urae UREA ⑥ 4 hours Ureeks Urae (Urine) UURE CU 4 hours Urea Lectrolytes (Urine) UELE CU 4 hours Urae	Sodium	NA	B	4 hours
Tissue Polypeptide Antigen TPA ③ 1 week Total Acid Phosphatase APT ⑤ 5 days Total Bile Acid/Bile Salts BILS ⑥ 1 week Total IgE IGE ⑥ 1 day Transferrin TRAN ⑥ 1 day Transferrin Electrophoresis TREL ⑥ 2 weeks Triglycerides TRI ⑥ 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Troponin T (High sensitive) TROT ⑥ 4 hours Tryptase STRY ⑥ 2 weeks Urroponin T (High sensitive) TROT ⑥ 4 hours Tryptase STRY ⑥ 2 weeks Uran Unic Acid Sector – Alpha TNF ⑥ (Frozen) ⁴ 2 weeks Urate (Uric acid) UA ⑥ (Frozen) ⁴ 4 hours Urea (Urine) UURE CU 4 hours Urea (Urine) UURE CU 4 hours Uric Acid (Serum)	Superoxide Dismutase Inhibitor	SODI	A / ()	5 days
Total Acid Phosphatase APT ⑤ 5 days Total Bile Acid/Bile Salts BILS ⑥ 1 week Total IgE IGE ⑥ 1 day Transferrin TRAN ⑥ 1 day Transferrin Electrophoresis TREL ⑥ 2 weeks Triglycerides TRI ⑥ 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Troponin T (High sensitive) TROT ⑥ 4 hours Tryptase STRY ⑥ 2 weeks Urable (Uric acid) UA ⑥ (Frozen)⁴ 2 weeks Urate (Uric acid) UA ⑥ 4 hours Urea UREA ⑥ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA ⑥ 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC	Thiopurine Methyl Transferase	TPMT	A 5	5 days
Total Bile Acid/Bile Salts BILS ③ 1 week Total IgE IGE ⑤ 1 day Transferrin TRAN ⑥ 1 day Transferrin Electrophoresis TREL ⑥ 2 weeks Triglycerides TRI ⑥ 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Troponin T (High sensitive) TROT ⑥ 4 hours Tryptase STRY ⑥ 2 days Tumour Necrosis Factor – Alpha TNF ⑥ (Frozen)⁴ 2 weeks Urate (Uric acid) UA ⑥ 4 hours Urea UREA ⑥ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes (Urine) UELE CU 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA ⑥ 4 hours Uric Acid (Urine) UUR CU 4 hours Uric Acid (Urine) UR	Tissue Polypeptide Antigen	TPA	В	1 week
Total IgE IGE Image: Bit of the component of the c	Total Acid Phosphatase	APT	В	5 days
Transferrin TRAN ③ 1 day Transferrin Electrophoresis TREL ⑤ 2 weeks Triglycerides TRI ⑥ 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Troponin T (High sensitive) TROT ⑥ 4 hours Tryptase STRY ⑥ 2 days Tumour Necrosis Factor – Alpha TNF ⑥ (Frozen)⁴ 2 weeks Urate (Uric acid) UA ⑥ 4 hours Urea UREA ⑥ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes (Urine) UELE CU 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA ⑥ 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Sugar Chromatography <	Total Bile Acid/Bile Salts	BILS	В	1 week
Transferrin Electrophoresis TREL ⑤ 2 weeks Triglycerides TRI ⑥ 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Troponin T (High sensitive) TROT ⑥ 4 hours Tryptase STRY ⑥ 2 days Tumour Necrosis Factor – Alpha TNF ⑥ (Frozen)⁴ 2 weeks Urate (Uric acid) UA ⑥ 4 hours Urea UREA ⑥ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes (Urine) UELE CU 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA ⑥ 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks <	Total IgE	IGE	В	1 day
Triglycerides TRI ③ 4 hours Trimethylaminuria (Fish Odour Syndrome) FOS PU 6 weeks Troponin T (High sensitive) TROT ③ 4 hours Tryptase STRY ③ 2 days Tumour Necrosis Factor – Alpha TNF ⑤ (Frozen)⁴ 2 weeks Urate (Uric acid) UA ⑥ 4 hours Urea UREA ⑥ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes U/E ⑥ 4 hours Urea and Electrolytes (Urine) UELE CU 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA ⑥ 4 hours Uric Acid (Serum) UA ⑥ 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Sugar Chromatography <t< td=""><td>Transferrin</td><td>TRAN</td><td>В</td><td>1 day</td></t<>	Transferrin	TRAN	В	1 day
Trimethylaminuria (Fish Odour Syndrome) Troponin T (High sensitive) TROT TR	Transferrin Electrophoresis	TREL	В	2 weeks
Troponin T (High sensitive) TROT ③ 4 hours Tryptase STRY ⑤ 2 days Tumour Necrosis Factor − Alpha TNF ⑥ (Frozen)⁴ 2 weeks Urate (Uric acid) UA ⑥ 4 hours Urea UREA ⑥ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes (Urine) UELE CU 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA ⑥ 4 hours Uric Acid (Urine) UURI CU 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Lon	Triglycerides	TRI	B	4 hours
Tryptase STRY ③ (Frozen)⁴ 2 days Tumour Necrosis Factor – Alpha TNF ⑤ (Frozen)⁴ 2 weeks Urate (Uric acid) UA ⑥ 4 hours Urea UREA ⑥ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes U/E ⑥ 4 hours 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA ⑥ 4 hours 4 hours Uric Acid (Urine) UURI CU 4 hours Uric Acid (Urine) UURI CU 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU³ 2 weeks Urine Sugar Chromatography UCRO RU (Frozen)³ 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids	Trimethylaminuria (Fish Odour Syndrome)	FOS	PU	6 weeks
Tumour Necrosis Factor – Alpha TNF ③ (Frozen) ⁴ 2 weeks Urate (Uric acid) UA ⑤ 4 hours Urea UREA ⑥ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes U/E ⑥ 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Urica Acid (Serum) UA ⑥ 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU ⁹ 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen) ⁹ 4-6 weeks Vitamin B12 (Active) B12 ⑥ 1 day	Troponin T (High sensitive)	TROT	B	4 hours
Urate (Uric acid) UA ③ 4 hours Urea UREA ③ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes U/E ⑤ 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA ⑥ 4 hours Uric Acid (Urine) UURI CU 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU ⁹ 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF ⑥ or ⑥ (Frozen) ⁹ 4-6 weeks Vitamin B12 (Active) B12 ⑥ 0 days Vitamin B12 (Total) TB12 0 days Vitamin D	Tryptase	STRY	B	2 days
Urea UREA ③ 4 hours Urea (Urine) UURE CU 4 hours Urea and Electrolytes U/E ③ 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA ⑤ 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU g 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF ⑥ or ⑥ (Frozen) g 4-6 weeks Vitamin B12 (Active)/Red Cell Folate B12 ① G 2 days Vitamin B12 (Total) TB12 ② G 2 days Vitamin D (25-OH) VIDL ① 13 1 week	Tumour Necrosis Factor – Alpha	TNF	□ (Frozen) ⁴	2 weeks
Urea (Urine) Urea (Urine) Urea and Electrolytes U/E 3 4 hours Urea Electrolytes (Urine) UELE CU 4 hours Uric Acid (Serum) UA 3 4 hours Uric Acid (Urine) UURI CU 4 hours Uric Acid (Urine) UURI CU 4 hours Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF Or (Frozen) 4-6 weeks Vitamin B12 (Active) B12 1 day Vitamin B12 (Active)/Red Cell Folate B12F 2 days Vitamin B12 (Total) TB12 3 1 day Vitamin D (25-OH) VIDL 3 13 1 week	Urate (Uric acid)	UA	В	4 hours
Urea and Electrolytes Urea Electrolytes (Urine) Urea Electrolytes (Urine) Uric Acid (Serum) Uric Acid (Urine) UURI Uric Acid (Urine) UURI URI URI URI URI URI URI URI URI UR	Urea	UREA	В	4 hours
Urea Electrolytes (Urine) Uric Acid (Serum) Uric Acid (Urine) Uric Ru Uric Cu Ru Uric Ru Uric Ru Uric Cu Or Ci Uric (Frozen) Uric Ca Uric	Urea (Urine)	UURE	CU	4 hours
Uric Acid (Serum) Uric Acid (Urine) Uric Acid (Urine) Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urine Sugar Chromatography UCRO RU 1 day Very Long Chain Fatty Acids VLCF Or (I) (Frozen) 4-6 weeks Vitamin B12 (Active) B12 I day Vitamin B12 (Active)/Red Cell Folate B12F I day Vitamin B12 (Total) TB12 I day Vitamin D (25-OH) VIDL I 1 week	Urea and Electrolytes	U/E	B	4 hours
Uric Acid (Urine) Uric Acid (Urine) Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF Or (Frozen) 4-6 weeks Vitamin B12 (Active) B12 1 day Vitamin B12 (Active)/Red Cell Folate B12F Or 1 day Vitamin B12 (Total) TB12 1 day Vitamin D (25-OH) VIDL 1 week	Urea Electrolytes (Urine)	UELE	CU	4 hours
Urine Free Light Chains UFLC RU 1 week Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF Or (Frozen) 4-6 weeks Vitamin B12 (Active) B12 1 day Vitamin B12 (Active)/Red Cell Folate B12F D1 D2 D3 D4 D4 D4 D4 D5 D4 D6 D7 D6 D7 D7 D7 D8 D8 D8 D8 D8 D8 D8	Uric Acid (Serum)	UA	В	4 hours
Urine Organic Acids UORG RU (Frozen) 3 weeks Urine Steroid Screen (Steroid Hormones) USTE CU or RU 9 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF ♠ or ♣ (Frozen) 9 4-6 weeks Vitamin B12 (Active) B12 ♠ ② 1 day Vitamin B12 (Active)/Red Cell Folate B12F ♠ ② 2 days Vitamin B12 (Total) TB12 1 day Vitamin D (25-OH) VITD 4 hours VLDL Cholesterol VLDL 13 1 week	Uric Acid (Urine)	UURI	CU	4 hours
Urine Steroid Screen (Steroid Hormones) USTE CU or RU 9 2 weeks Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen) 9 4-6 weeks Vitamin B12 (Active) B12 ♠ ② 1 day Vitamin B12 (Active)/Red Cell Folate B12F ♠ ② 2 days Vitamin B12 (Total) TB12 ♠ 1 day Vitamin D (25-OH) VITD ♠ 4 hours VLDL Cholesterol VLDL ♠ 13 1 week	Urine Free Light Chains	UFLC	RU	1 week
Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen)³ 4-6 weeks Vitamin B12 (Active) B12 ♠ ② 1 day Vitamin B12 (Active)/Red Cell Folate B12F ♠ ② 2 days Vitamin B12 (Total) TB12 ♠ 1 day Vitamin D (25-OH) VITD ♠ 4 hours VLDL Cholesterol VLDL ♠ 13 1 week	Urine Organic Acids	UORG	RU (Frozen)	3 weeks
Urobilinogen (Urine) UURO RU 1 day Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen) ⁹ 4-6 weeks Vitamin B12 (Active) B12 ♠ ① 1 day Vitamin B12 (Active)/Red Cell Folate B12F ♠ ② 2 days Vitamin B12 (Total) TB12 ⑥ 1 day Vitamin D (25-0H) VITD ⑥ 4 hours VLDL Cholesterol VLDL ⑥ 1 week	Urine Steroid Screen (Steroid Hormones)	USTE	CU or RU ⁹	2 weeks
Very Long Chain Fatty Acids VLCF Or (Frozen)9 4-6 weeks Vitamin B12 (Active) B12 1 day Vitamin B12 (Active)/Red Cell Folate B12F O 3 1 day Vitamin B12 (Total) TB12 I day Vitamin D (25-0H) VITD O 4 hours VLDL Cholesterol VLDL O TFrozen)9 4-6 weeks 1 day	Urine Sugar Chromatography	UCR0	RU (Frozen)	3 weeks
Vitamin B12 (Active) B12 3 1 day Vitamin B12 (Active)/Red Cell Folate B12F 3 3 2 days Vitamin B12 (Total) TB12 3 1 day Vitamin D (25-OH) VITD 3 4 hours VLDL Cholesterol VLDL 13 1 week		UUR0		1 day
Vitamin B12 (Active)/Red Cell Folate B12F 3 B 2 days Vitamin B12 (Total) TB12 3 1 day Vitamin D (25-OH) VITD 3 4 hours VLDL Cholesterol VLDL 13 1 week	Very Long Chain Fatty Acids	VLCF	A or (Frozen) 9	4-6 weeks
Vitamin B12 (Total) TB12 3 1 day Vitamin D (25-OH) VITD 3 4 hours VLDL Cholesterol VLDL 3 1 week	Vitamin B12 (Active)	B12		1 day
Vitamin D (25-OH) VITD 3 4 hours VLDL Cholesterol VLDL 3 1 week	Vitamin B12 (Active)/Red Cell Folate	B12F	A B	2 days
VLDL Cholesterol VLDL 3 13 1 week	Vitamin B12 (Total)	TB12	В	1 day
1-22 0.00000000	Vitamin D (25-OH)	VITD	В	4 hours
VMA UVMA PU 1 5 days	VLDL Cholesterol	VLDL	B 13	1 week
	VMA	UVMA	PU ¹	5 days





Troponin T (high sensitive)

This assay can be used to aid in the differential diagnosis of acute coronary syndrome to identify necrosis, e.g. acute myocardial infarction. As a result of its high tissue-specificity, cardiac troponin T is a cardio-specific, highly sensitive marker for myocardial damage. Cardiac Troponin T (hs) increases approximately 3-4 hours after myocardial infarction and may persist for up to 2 weeks.



All citrate samples () sent by post or with an overnight delay must be double spun and sent frozen.

TEST	CODE	SAMPLE REQS	TAT
Anaemia Profile	ANAE	AAB	2 days
Antenatal Profile	ANTE	A A ³³ B B B G	3 days
APTT/KCCT	KCCT	C 18	4 hours
Atypical Antibody Screen (handwritten tube label)	AASC	A 22,33	2 days
Blood Film Examination	FILM	A	1 day
Blood Group†	AB0	A 22,33	2 days
Carboxyhaemoglobin	СВНВ	A	1 week
Coagulation Profile 1	CLPF	C 18	4 hours
Coagulation Profile 2	CLOT	A C 18	4 hours
D-Dimers (Fibrinogen Degradation Products)	DDIT	C 4	4 hours
DVT/Pre-travel Screen	DVT1	A B 9	5 days
ESR	ESR	A	4 hours
Fibrinogen	FIB	C 4,18	4 hours
Full Blood Count	FBC	A	4 hours
Haematology Profile	PP3	A	4 hours
Haemoglobin	НВ	A	4 hours
Immune Function Evaluation (Total)	TIE	A + B 5,10	7 days
INR	PTIM	() 18	4 hours
Lymphocyte Subsets (CD3/CD4/CD8)	LYSS	A 10	1 day
Malarial Parasites	MALP	A 4,9,14	STAT
Mean Cell Volume (MCV)	MCV	A	4 hours
Microfilaria Blood Film	MICF	A	STAT
Natural Killer Profile 2	NKP2	A	2 days
PAI1 4G/5G Polymorphism	PAIP	A	10 days
Paul Bunnell (Monospot)	PAUL	A or B	8 hours
Pre-Travel Screen (DVT)	DVT1	A B 9	5 days
Prothrombin Time	PTIM	C 18	4 hours
Prothrombin Time + Dose	PT+D	() 18	4 hours
Reticulocyte Count	RETC	A	4 hours
Thrombin Time	THR0	C 18	4 hours
Vitamin K (With PIVKA II)	VITK	B 13	10 days

[†] The tube's own label must be completed by hand. This must correspond with same name and date of birth details as given on the request form. Do not affix additional computerised or hand written labels.

SPECIAL	. HAEMOST	ASIS	
TEST	CODE	SAMPLE REQS	TAT
Activated Protein C Resistance	APCR	(Frozen) ^{4,18}	3 days
ADAMTS-13 Activity	CP13	(Frozen)	3 days
ADAMTS-13 Antibody	A13A	(Frozen)	1 month
Antithrombin III	A111	(Frozen) ^{4,9,18}	3 days
Anti-Xa Apixaban monitoring	APIX	(Frozen)*	3 days
Anti-Xa Fondapariux monitoring	FOND	(Frozen)*	3 days
Anti-Xa- LMWH monitoring	LMWX	(Frozen)*	3 days
Anti-Xa- Rivaroxaban monitoring	RIVA	C (Frozen)*	3 days
Factor II Assay	FAC2	(Frozen) 9,18	5 days
Factor V Assay	FAC5	(Frozen) 9,18	5 days
Factor VII Assay	FAC7	(Frozen) 9,18	5 days
Factor VIII Assay	FAC8	(Frozen) 9,18	5 days
Factor VIII Inhibiting Antibody	F8IA	C C 18	2 weeks
Factor IX Assay	F1X	(Frozen) 9,18	5 days
Factor IX Inhibiting Antibody	F9IA	○ ○ 18	2 weeks
Factor X Assay	FX	(Frozen) 9,18	5 days
Factor XI Assay	FX1	(Frozen) 9,18	5 days
Factor XII Assay	FX11	(Frozen) 9,18	5 days
Factor XIII Assay	FA13	(Frozen) 9,18	5 days
Hughes Syndrome	LUPA	B C 4,18	2 days
Lupus Anticoagulant and Anticardiolipin Abs	LUPA	B C 4,18	2 days
Lupus Anticoagulant only	LUPC	© 18	2 days
Miscarriage/Thrombotic Risk Profile	PROP	A B C C 1 8	5 days
P2Y12 Receptor Platelet Function Analysis (Clopidogrel Resistance)	P2Y	(Whole blood)**	1 day
Platelet Aggregation Studies	PLAG	J 5,6	3 days
Protein C	PRC	(Frozen) 4,9,18	3 days
Protein S Activity	PS1	(Frozen)	5 days
Protein S Free Ag	FPRS	(Frozen) 4,9,18	3 days
Taipan Snake Venom Time	TTVT	() 18	1 week
Thrombotic Risk Profile	PROP	A A B C C 1 8	5 days
Viscosity (Plasma)	VISC	A 4	3 days
Von Willebrand Profile	FVWF	4,12	5 days
	1 4 441	GGG '	o uayo

^{*} Please state drug and time of dose on request.

^{**} Deliver directly to 60 Whitfield Street, Haemostasis Laboratory

SPECIAL HAEMATOLOGY				
TEST	CODE	SAMPLE REQS	TAT	
Coombs (Direct Antiglobulin Test)	СООМ	A	2 days	
Erythropoietin	ERY	В	4 days	
G6PD	G6PD	A	3 days	
Haemoglobin Electrophoresis	HBEL	A	4 days	
HFE gene (Haemochromatosis) – common mutations C282Y + H63D	HMD	A 9	3 days	
Sickle Solubility	SS0L	A	4 days	
Thalassaemia Screen	HBEL	A	4 days	

FLOW CYTOMETRY				
TEST	CODE	SAMPLE REQS	TAT	
Bone Marrow (Aspirate)	BMAS	J ¹	14 days	
Bone Marrow (Trephine Biopsy)	BMI	J 1	3 days	
CD3/CD4/CD8	LYSS	A 10	1 day	
CD16	CD16	A 4	1 day	
CD19 B Cells	CD19	A 4	1 day	
CD20	CD20	A 10	2 days	
CD25	CD25	A 10	2 days	
CD56	CD56	A 4	1 day	
CD57	CD57	A	1 day	
Hams Test for PNH (CD59)	HAMS	J ^{34,5}	5 days	
Leukaemia Immunophenotyping	LYPT	A 4,5	5 days	

HAEMATOLOGY PROFILE FBC + 5 part Diff **FSR**

4 HOURS

PP3

COAGULATION PROFILE 1

Prothrombin Time APTT Fibrinogen

4 HOURS

CLPF

COAGULATION PROFILE 2

FBC + 5 part Diff Prothrombin Time **APTT** Fibrinogen

> 4 HOURS

CLOT





ANAEMIA PROFILE

FBC + 5 part Diff **ESR** Iron, TIBC Ferritin B12 (Active) Folate (RBC)

2 DAYS ANAF

Factor V Leiden

FBC

(C) 18

Anticardiolipin Antibodies

5 DAYS

DVT1

VON WILLEBRAND PROFILE

Von Willebrand Factor Von Willebrand Activity (Ristocetin Cofactor) Factor VIII Assav

FVWF



A



(C) (C) 4,12

THROMBOTIC RISK PROFILE

FBC Coagulation Profile Antithrombin III Factor V Leiden gene Factor II Prothrombin gene MTHFR gene Lupus Anticoagulant Protein C Free Protein S Ag Anticardiolipin Abs

> 5 DAYS PR_OP

ANTENATAL PROFILE

PRE-TRAVEL SCREEN (DVT)

Factor II Prothrombin Gene

FBC + 5 part Diff Blood Group and Rh Type Atypical Antibody Screen Haemoglobin electrophoresis Syphilis IaG/IaM Glucose FT4/TSH Rubella Antibodies (IgG) Toxoplasma (IgG/IgM) Hepatitis B sAq Hep C Abs Varicella Zoster IgG (Immunity) HIV 1 & 2 Abs

group (EDTA) tube label is **HANDWRITTEN.** Do not affix a secondary label.



ANTE











NATURAL KILLER PROFILE 2

CD3 CD4 CD8 CD16/CD56 CD19

TAT 2 DAYS

NKP2



TEST	CODE	SAMPLE REQS	TAT
16S rRNA Bacterial Gene	16S	J	1 week
18S rRNA Fungal Gene	18S	J	1 week
Aspergillus Precipitins	ASPP	В	5 days
Beta D Glucan	XBDG	В	3 days
Blood Culture#	BCUL	2 x BC ⁴	6 days +
Carbapenemase producing organism screen	MDR	STM (rectal)	4-5 days ‡
Clostridium Difficile Toxin by PCR	CLOS	RF*	2 days
Cryptococcal Antigen	CRYC	Serum or CSF	1 day
Cryptosporidium	CRP0	RF	2 days
CSF for Microscopy and Culture	CSF	CSF	1-3 days
Culture (Any site)	CULT		up to 5 days
Faecal Occult Blood/FOB (immunochemical/FIT)	QFIT	QFIT	1 day
Fluid Culture	FLUD	SC	2-7 days
Fluid for Crystals	FLU2	SC	1 day
Fungal ID + Sens	FUID	Fungal sample/STM	14 days
Galactomanan (Aspergillus Antigen)	SGAL	B	2 weeks
Gonorrhoea (Culture)	GONN	CS ^{‡‡‡}	2-3 days
Group B Strep	GBSX	2 x STM	3-4 days
H. pylori Culture	HPCU	J	3 weeks
HVS	HVS	STM ^{‡‡‡‡}	2-4 days
IUCD for Culture	IUCD	Send Device	11-12 days
Legionella Urine Antigen	LEGA	RU	1 day
MRSA (Rapid PCR) one swab per site	MRSA	Blue Micro Swab	4 hours
MRSA Culture one swab per site	MRSW	Blue Micro Swab	2 days
Mycology/Skin Scrapings by PCR	DERM	Submit Sample	3-7 days
Nail Clippings	DERM	Nail clippings	3-7 days
Pleural Fluid for Culture	FLUP	SC	7 days
Pneumococcal Antigen	PNAG	RU	1 day
Pneumocystis Jiroveci (PCP) Examination	PCYS	BAL ^{‡‡}	2-3 days
Rapid Strep (incl. m/c/s)	RAPS	STM**	1-3 days**

Please contact the Phlebotomy at Patient Reception 020 7307 7383 for further details, as needed.

Blood cultures must be taken prior to any other blood samples.

The aerobic bottle must be collected first, followed by the anaerobic bottle.

Each bottle should be filled with 8-10 ml of blood, use the markings on the bottles to achieve this.

- Other bloods can be collected but must be collected after the blood cultures.
- Bottles must be labelled with the patient's identification details.
- Bottles and Request Form need to give the time taken and the body site that the blood was taken from.
 Ensure that the bottle barcodes are not obscured when adding patient labels.
- · Send the blood cultures to the laboratory without delay.

TEST	CODE	SAMPLE REQS	TAT
Schistosoma (Urine)	USCH	Mid-morning terminal urine	8 hours
Sellotape Test	SELL	Send Sample***	1 day
Semen Culture	SPCU	Semen	2-4 days
Skin Scrapings/Mycology by PCR	DERM	Send Sample	3-7 days
Specific Gravity (Urine)	USG	RU	24 hours
Sputum for Routine Culture	SPU1	SC	2-4 days
Sputum for TB Culture (AFB)	SPU2	SC	up to 8 weeks
Stool for OCP and Culture	PENT	RF	2-3 days
Stool for OVA Cysts & Parasites by PCR	0CP	RF	1 day
Stool Reducing Substances	STRS	RF ⁷	5 days
Swab (Ear)	EARS	STM	2-4 days (Culture) 8-9 days (Fungal) – same swab
Swab for Culture (Any Site) (see page 44)	SWAB	STM†	2-4 days
Synovial Fluid (for microscopy and culture)	FLU2	SC†††	14 days
TB (pleuralfluid)	TBCU	SC	up to 8 weeks
TB Culture	SPU2	SC	up to 8 weeks
TB Culture (Urine)	TBUR	3 x EMU	up to 8 weeks
TB Slopes – Confirmation and Sensitivity	TBSL	TB slope (LJ medium-green) ⁶	up to 8 weeks
Tissue for culture	TISS	Tissue sample	up to 14 days
Urine (Microscopy Only)	UMIC	RU	1 day
Urine for Microscopy and Culture	UCEM	MSU††††	1-2 days

Not performed on formed stool specimens.

^{**} Do not use a black swab for RAPS. Use Blue only. Rapid antigen is reported within 4 hours with full culture to follow.

^{***} Use clear Sellotape only and attach to slide.

^{****} Culture techniques have been discontinued, please send PCR (see Sexual Health section for full details).

Presumptive positive isolates will be sent to the PHE reference laboratory for confirmation.

^{**} BAL: Induced sputum or bronchoalveolar larage.

^{****} The optimal sample type from the female genital tract is an endocervical swab. Gonorrhoea does not survive well outside the endocervical epithelium; a negative gonorrhoea culture result from a vaginal swab is not reliable for excluding infection.

^{*****} Culture for Mycoplasma, Ureaplasma and Trichomonas vaginalis has been discontinued due to the superiority of molecular methods. If investigations for Mycoplasma genitalium, Ureaplasma or Trichomonas vaginalis are required please request PCR testing (see Sexual Health section).

Please state site of swab collection on **both** request form and swab label.

Please provide relevant travel history. If travel history is not provided, stool will be investigated for endemic pathogens only [Campylobacter, Salmonella, Shigella, Shigatoxin-producing E coli (VTEC), Cryptosporidium and Giardia].

^{†††} If prosthetic joint is present please state in clinical details to ensure that enrichment culture is prolonged for 14 days.

^{*****} Optimal sample type for urine culture is a mid-stream clean catch urine sent in a sterile pot containing boric acid preservative.

URINE CULTURE PROCESSING AND RESULTS

All urine culture testing is performed using manual methods. The culture pathway adheres to national guidance and is a fully UKAS-accredited method.

Manual testing allows a larger amount of urine to be tested than previous automated method, which enables the laboratory to detect lower bacterial counts (as low as 103cfu/mL) and also facilitates the follow up of significant organisms grown from mixed cultures.

If the culture result is indicative of urinary tract infection, antibiotic susceptibilities will be tested from the culture growth and will be available 24 hours after the culture result. 'Direct sensitivities' are no longer performed. Direct susceptibility testing is not inoculum-controlled, produces inaccurate results and is not UKAS-accredited.

Culture results should be interpreted alongside the microscopy WBC count and clinical signs and symptoms. Significant growth on culture in the absence of pyuria may be suggestive of contamination with regional flora rather than true infection. It should be noted, however, that WBC degrade in urine quite rapidly and delays between sample collection and microscopy may lead to falsely low WBC readings which may account for these findings.

What does the result 'No significant growth' mean?

The amount of growth falls below the threshold for urinary tract infection (< 103 cfu/mL).

There is no laboratory evidence of urinary tract infection.

Occasionally, this may be seen in very early stages of infection or in a partially treated urinary tract infection. Therefore, please send a repeat specimen if symptoms persist.

What does the result 'mixed growth doubtful significance' mean?

This means that the culture revealed a heavy growth of at least 3 organisms with no predominating organism; this represents contamination of the urine with the patient's flora during collection.

This result does not exclude urinary tract infection but it is not possible to determine the causative organism among the mixture of organisms.

If symptoms persist, please send a repeat urine specimen and ensure that patient understands optimal collection technique.

If you are receiving a lot of 'mixed growth of doubtful significance' results, please consider the following:

• The instructions that patients are given to collect their urine sample

Poor collection technique is the most common reason for a heavily mixed growth in a urine sample. It is almost impossible to collect a urine sample without any contamination from the normal bacterial flora which inhabits the area surrounding the urethral opening, but optimal collection technique will minimise this contamination and allow the true infective cause to stand out and be identified (a patient instruction leaflet is available).

Delays between sample collection and laboratory processing

The time between sample collection and laboratory processing can allow small amounts of contaminating bacterial flora to multiply up to higher amounts prior to laboratory testing, which can result in heavy mixed growth of bacteria on culture. Using a red topped specimen pot containing boric acid preservative will minimise this.

RED TOPPED BORIC ACID CONTAINERS

The preservative reduces the overgrowth of organisms and, to a lesser extent, reduces the degradation of white cells during transit leading to a more accurate laboratory result for both microscopy and culture. UKAS recommends the use of boric acid containers for all urine sample for microscopy and culture (Urine M,C&S) to improve the quality of microbiological results.

Red topped boric acid containers are for requests for urine microscopy and culture (MC&S) ONLY. Boric acid container should NOT be used for:

- Other urine microbiology tests (e.g. investigations for Chlamydia, Mycobacterium, Schistosomiasis, urinary antigen testing)
- · Urine samples being analysed by PCR methodology
- Urine samples for non-microbiology tests (e.g. biochemistry, virology, pregnancy testing)
- · Very small urine volumes (<20ml) e.g. neonates

Use of urinary dipsticks: boric acid may inhibit leukocyte esterase dipstick readings; dipstick testing performed on a sample in a boric acid container should be interpreted with caution.

If additional tests are required in addition to urine microscopy and culture, **an additional sample in a white-topped universal container should be sent**. In this case, it is advised that the mid-stream clean catch urine is collected in a sterile bowl and then transferred to the necessary specimen containers.

If, despite these measures, a patient has recurrent mixed growth reports from multiple urines, it may suggest that your patient has abnormal urinary tract architecture, immunosuppression or other non-infective cause that requires different laboratory investigations or referral to a specialist. If further information is required, please telephone the laboratory and ask to discuss the case with one of our consultant Microbiologists.

Swabs: Types and Codes

Patient Request Forms AND Swabs should be labelled with the body site from which the sample was taken. This is important. The swab site determines the appropriate culture media required to target the most likely pathogens.

SITE	CODE	SAMPLE TYPE	
Culture Swabs			
Cervical Swab	CERS	Blue Micro Swab	
Eye Swab	EYES	Blue or Orange Micro Swab	Blue Micro/Transwab
Ear Swab	EARS	Blue or Orange Micro Swab	are multipurpose, culture
Gonorrhoea	GONN	Black Charcoal Swab	swabs in transport medium
High Vaginal Swab	HVS	Blue Micro Swab	Orange Micro/Transwab
Nasal Swab	NASS	Blue or Orange Micro Swab	are small, thin wire culture
Oral Swab	ORSW	Blue Micro Swab	swabs in transport medium
Penile Swab	PENS	Orange Micro Swab	Black Charcoal
Rectal Swab	RECG	Blue Micro Swab	Micro/Transwab
Skin Swab	SKIS	Blue Micro Swab	Wound, skin, urogenital
Throat Swab	THRS	Blue Micro Swab	and throat.
Urethral Swab	URES	Orange Micro Swab	
Vaginal Swab	VAGS	Blue Micro Swab	
Vulval Swab	VULV	Blue Micro Swab	
Wound Swab	WOUS	Blue Micro Swab	
MRSA by Culture	MRSW	Blue Micro Swab x 1 – state site	
	MRW2	Blue Micro Swab x 2 – state sites	
	MRW3	Blue Micro Swab x 3 – state sites	
	MRW4	Blue Micro Swab x 4 – state sites	
	MRW5	Blue Micro Swab x 5 – state sites	
RAPID MRSA by PCR	MRSA	Blue Micro Swab x 1 – state site	
Note: This PCR	MRS2	Blue Micro Swab x 2 – state sites	
methodology uses	MRS3	Blue Micro Swab x 3 – state sites	
Blue Micro Swabs	MRS4	Blue Micro Swab x 4 – state sites	
	MRS5	Blue Micro Swab x 5 – state sites	

PCR METHODS FOR THE DETECTION OF DERMATOPHYTE FUNGAL CULTURES

The detection of Dermatophyte fungal cultures uses High Sensitivity PCR testing. This reduces the overall turnaround time by up to three weeks, and increases the detection of fungal infection compared to combined microscopy and culture. Furthermore the specific targeting pathogens associated with superficial fungal infection is increased which assists in preventing the over reporting of insignificant fungi that are contaminants.

FUNGAL TEST CODES

	Investigation of Superficial Fungal Infection	Investigation of Non-Superficial Fungal Infection
Test Code	DERM*	FUN*
Sample type	Nail, Hair, Skin.	All specimens other than Skin, Hair and Nail.
Turnaround time	72 hours for interim PCR report, and 7 days for final culture (unless the fungal culture needs to be extended for significant growth).	7 days (non-sterile e.g. ear swab) and 3 weeks (sterile i.e. CSF).
Notes	 Dermatophyte PCR is replacing microscopy for Nails, Hair and Skin (72 hour TAT). Non-dermatophyte culture will take 7 days rather than 3 weeks. Microscopy will be used to confirm significance of rare fungi that may cause infections. There is no change in the price of this test. 	 Non-sterile specimen fungal cultures are performed on Sabouraud's agar plates for 7 days with no microscopy. Sterile specimen fungal cultures have microscopy (Calcafluor) reported on the day of processing and culture on a Sabouraud's agar slope, incubated for 21 days.

STOOL TEST CODES

Traditional culture methods have been replaced by Real Time PCR for enteric pathogen testing. The benefits are increased sensitivity and a higher detection rate. Once received and processed in the microbiology lab, negative results will be available within 24 hours. Positive results will be followed up with culture and sensitivities for final reporting.

STOOL OCP AND CULTURE				
Sample Type	Please request as PENT	Comments		
Stool	Serosep EntericBio PCR Bacteria/Bacterial Toxins • Salmonella • Campylobacter • Shigella • VTEC Parasites • Cryptosporidium • Giardia	All stool samples will be tested for UK Pathogens. Overseas pathogens will only be tested if specifically requested and travel history and clinical details are provided. Samples that are positive for the bacterial pathogens will be cultured to provide sensitivities and, if indicated, for PHE referral. Samples will be kept for 7 days after receipt to allow for additional testing if required.		

STOOL FOR OCP				
Sample Type	Please request as OCP	Comments		
Stool	Requests for OCP only will include testing for cryptosporidium and giardia by PCR	Overseas pathogens will only be tested if requested and travel history and clinical details are provided.		

C. DIFFICILE DETECTION				
Sample Type	Please request as CLOS	Comments		
Stool	Serosep Enteric Bio PCR	Change to PCR and Elisa methods.		
	Alere Techlab EIA (Toxin)	Two tier PCR & Toxin c. diff screening based on PHE guidance. Improved sensitivity and specificity for both targets tested.		
		Primary c. diff gene screening using Enteric Bio PCR.		
		Secondary sequential testing using Alere EIA to confirm Toxin.		

GASTRO VIRUS DETECTION (INCLUDING ROTAVIRUS) SEE VIROLOGY

ENTERIC ORGANISM RAPID DETECTION SEE VIROLOGY

GROUP B STREPTOCOCCUS (GBS)

Group B Streptococcus (GBS or group B Strep) is the most common cause of severe infection in newborn babies, and of meningitis in babies under age 3 months. On average in the UK:

- 2 babies a day develop group B Strep infection
- 1 baby a week dies from group B Strep infection
- 1 baby a week survives group B Strep infection with long term disability

Most GBS infection is of early onset, presenting in babies within the first 6 days of life, and usually within the first 12 hours after birth. Between age 7 days and 3 months, these infections are rare, and in babies over 3 months they are very rare indeed.

Most early-onset GBS infections (in babies aged 0-6 days) can be prevented by giving intravenous antibiotics in labour to women whose babies are at raised risk of developing GBS infection. In the UK, women are offered IV antibiotics in labour based on specific risk factors.

GBS is normal flora of the distal GI tract. Up to 30% of women carry it harmlessly in their vaginal tract. Vaginal carriage at the time of vaginal delivery can result in transmission of GBS to baby. Babies are more vulnerable to infection as their immature immune systems cannot fight off the multiplying bacteria. If untreated, GBS can cause serious infections, such as meningitis and septicaemia, which may lead to stillbirths, and newborn and infant deaths. If they survive, babies can develop permanent problems including hearing or vision loss, or cerebral palsy.

Current GBS prevention focuses on giving intravenous antibiotics to women in labour, aiming to reduce disease in infants at delivery. 2 x Blue culture swabs (lower vaginal and lower rectal) should ideally be taken from 35 weeks. Swabs will be placed in enrichment culture in the microbiology laboratory to ensure maximal detection.

TEST	CODE	SAMPLE REQS	TAT
11 Deoxycorticosterone	DEOX	В	10 days
11 Deoxycortisol	11DC	(Frozen)	10 days
17 Hydroxyprogesterone	170H	В	5 days
ACTH (Adreno Corticotrophic Hormone)	ACTH	(Plasma Frozen)41	1 day
Aldosterone	ALDN	В	5 days
Aldosterone (Urine)	UALD	PU	5 days
Alpha Feto Protein	AFP	В	4 hours
Amenorrhoea Profile	AMEN	В	4 hours
Andropause Profile	ANDP	BB	8 hours
Androstenedione	ANDR	(Frozen)	4 days
Antidiuretic Hormone	ADH	(Plasma Frozen) ⁴	10 days
Antimullerian Hormone (AMH Plus)	АМН	В	4 hours
Beta HCG (Quantitative)	QHCG	В	4 hours
BNP (NT-pro BNP)	BNP	В	4 hours
C Peptide	CPEP	B	3 days
Calcitonin	CAT0	⑤ (Frozen)⁴	1 day
Catecholamines (Plasma)	CATE	(Plasma Frozen) ⁴	5 days
Catecholamines (Urine)	UCAT	PU ¹	5 days
Cortisol	CORT	В	4 hours
Cortisol (Urine)	UCOR	CU	5 days
DHEA	DHEX	В	7-10 days
DHEA – Urine (Dehydroepiandrosterone)	UDHE	CU	3 weeks
DHEA Sulphate	DHEA	В	4 hours
Dihydrotestosterone	DHT	BB	7 days
Down Syndrome Risk Bloods only (Risk to be calculated by clinician)	HCGF/PAPA	B	4 hours
Down Syndrome Risk Profile (2nd trimester) Quad	DRP	B DRP form 7,8	2 days
Down Syndrome Risk Profile with risk calculation first trimester	DRP	DRP form + image of scan 7,8	2 days
Erectile Dysfunction Profile	IMP0	ABBG	3 days
Female Hormone Profile	FIP	В	4 hours
First Trimester Antenatal Screen (Risk to be calculated by requesting clinician)	HCGF/PAPA	(3)	4 hours
Free Cortisol (Urine)	UCOR	CU	5 days
Free T3	FT3	В	4 hours
Free T4	FT4	В	4 hours
FSH	FSH	В	4 hours
Growth Hormone (Fasting)	GH	B 7,35	4 hours
Gut Hormone Profile	GUTP	(Frozen within 15 minutes) 41	3 weeks
Hirsutism Profile	HIRP	В	4 hours
HRT Profile 1	HRT	B	4 hours
HRT Profile 2	HRT2	BG	4 hours

TEST	CODE	SAMPLE REQS	TAT
IGF-1 (Somatomedin)	SOMA	(Frozen)⁴	1 day
IGF-BP3	IGF3	(Frozen)⁴	5 days
Impotence Profile	IMP0	ABBG	3 days
Inhibin A	INIA	В	1 month
Inhibin B	INIB	(Day 3 of cycle, frozen)	5 days
Insulin	INSU	B	4 hours
Insulin Resistance (Fasting)	FIRI	BG	4 hours
Luteinising Hormone (LH)	LH	B	4 hours
Macroprolactin	PRLD	B	4 days
Male Hormone Profile	MIPR	B	4 hours
Melanin	MELA	RU ¹³	5 days
Melatonin (Serum)	MEL	(Frozen)	5 days
Melatonin (Urine)	UMEL	CU ¹³	2 weeks
Menopause Profile	MENO	B	4 hours
Metabolic Syndrome Profile	METS	ABBG	9 days
Metanephrines (Plasma)	PMET	(Frozen plasma)	7 days
Metanephrines (Urine)	UMEX	PU ¹	5 days
Oestradiol (E2)	0EST	В	4 hours
Oestriol (Estriol)	E3	BB	4 days
Oestrone	E1		4 days
Osteocalcin	OST	(Frozen) ⁴	4 days
Parathyroid Hormone (Whole)	PTHI	B 4	1 day
Pituitary Function Profile	PITF	BB	1 day
Polycystic Ovary Syndrome Profile	PC0P	ABBB G ⁷	5 days
Polycystic Ovary Syndrome SHORT	PCOS	B G	4 hours
Pregnancy (Serum) [Quantitative]	QHCG	B	4 hours
Pregnanetriol (Urine)	UPTR	CU (Frozen)	5 days
Pregnenolone	PREN	B	15 days
Progesterone	PROG	B	4 hours
Proinsulin	PROI	(Frozen plasma)4	5 days
Prolactin	PROL	В	4 hours
Prolactin (Macro)	PRLD	В	4 days
Renin	RENI	(Frozen plasma)36	5 days
Reverse T3	RT3	B 7,37	10 days
Serotonin	SERT	(Frozen whole blood)1	10 days
Serotonin (Urine)	USER	PU 50mls (Frozen) ¹	5 days
Sex Hormone Binding Globulin	SHBG	B	4 hours
Somatomedin (IGF-1)	SOMA	(Frozen)⁴	1 day
T3	Т3	В	4 hours
T3 (Reverse)	RT3	B 7,37	10 days
Testosterone	TEST	B	4 hours
Testosterone (Bioavailable)	BTES	B	5 days
Testosterone (Free)	FTES	B	3 days
			-

TEST	CODE	SAMPLE REQS	TAT
Thyroglobulin Abs	TGAB	B	1 day
Thyroglobulin Assay	TGA	3	1 day
Thyroid Abs (incl. Thyroglobulin + Thyroid Peroxidase Abs)	THAB	В	1 day
Thyroid Peroxidase Antibodies/Anti TPO	TPEX	В	1 day
Thyroid Profile 1	TF	3	4 hours
Thyroid Profile 2	TF2	B	2 days
Thyroid Profile 3	TF3	B	4 hours
Thyroxine (T4)	T4	B	4 hours
Thyroxine Binding Globulin	TBG	(Frozen)	10 days
TSH	TSH	В	4 hours
TSH-Receptor Antibodies	TSI	В	4 days

REPRODUCTIVE IMMUNOLOGY AT ROSALIND FRANKLIN LABORATORIES, CHICAGO, USA

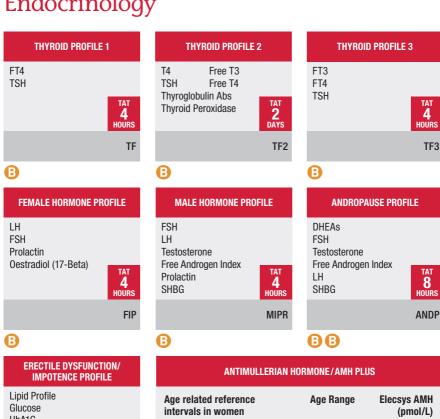
TEST	CODE	SAMPLE REQS	TAT
Reproductive Immunophenotype Panel	3RF	000	1 week
NK Assay/Cytotoxicity Panel	4RF	000	1 week
NK Assay Follow-Up Panel	5RF	000	1 week
TH1/TH2 Cytokine Ratio	6RF	OOO 5	1 week
Leucocyte Antibody Detection Panel MALE	7RF	•••••••••••••••••••••••••••••••••••••	1 week
Leucocyte Antibody Detection Panel FEMALE	8RF	B	1 week
HLA DR Antigens	9RF	AA	2 weeks
HLA DQ Alpha Antigens	10RF	AA	2 weeks
HLA DQ Beta Antigens	11RF	AA	2 weeks
NK Assay Panel + Intralipids	16RF	000	1 week
KIR (Killer-like Immunoglobulin-like Receptors) Genotyping	17RF	AAA	2-3 weeks
TH1/TH2 Intracellular Cytokine Ratios with IVIG, Prednisolone	20RF	⊕⊕ ₅	1 week
TH1/TH2 Intracellular Cytokine Ratios with IVIG	21RF	⊕⊕	1 week
TH1/TH2 Intracellular Cytokine Ratios with Prednisolone	22RF	000 5	1 week
Endometrial Biopsy Immune Profiling	23RF	J (Contact Referrals)	2 weeks
T Regulatory Cells	25RF	0	3 days

Patients who have samples taken at TDL's Patient Reception at 76 Wimpole Street may attend any time during hours of opening on Mondays or Tuesdays, and by **NOON on Wednesdays to allow for same day shipping to Chicago by Fed Ex**. Samples for Rosalind Franklin are not accepted on Thursdays, Fridays or Saturdays. Fed Ex charges are included in these charges.

REPRODUCTIVE IMMUNOLOGY AT ST HELIER, CARSHALTON

TEST	CODE	SAMPLE REQS	TAT
NK (CD69) Cell Assay	CD69	()*	Send Mon-Thurs only
NK Cytotoxicity Assay	HSNK	000 *	Send Mon-Thurs only
NK (CD69) and NK Cytotoxicity	69C	000 *	Send Mon-Thurs only
NK Cytotoxicity with suppression, steroid, IVIg & Intralipin	NKCY	000*	Send Mon-Thurs only
NK Cytotoxicity with suppression with steroid, IVIg and intralipin, and NK (CD69) cell assay	69CI	000*	Send Mon-Thurs only
TH1/TH2 Cytokine Profile	1TH2	000 *	Send Mon-Thurs only
Suppression with steroid, IVIg and intralipin, NK (CD69) cell assay, TH1/TH2 cytokines	NCIT	000*	Send Mon-Thurs only

^{*} Patients need to attend Patient Reception at 76 Wimpole Street by **11.00am latest Mondays** – **Thursdays**. Samples cannot be accepted on Fridays, Saturdays or Sundays. Allow 2 days for results.



IMPOTENCE	PROFILE
Lipid Profile	
Glucose	
HbA1C TSH	
Prolactin	
Total Testosterone	Э
Free Testosterone	;
PSA	
	TAT

	intervals in women	
	The reference intervals below	20 - 29 years
	are derived from a population of apparently healthy women	30 - 34 years
	not taking any contraceptive	35 - 39 years
	medication. The reference	40 – 44 years
	intervals represent the 10th – 90th percentile values for the	45 - 50 years
	women in each age bracket.	
TAT 3 DAYS		
IMP0		

ABBG **More Hormone Profiles**

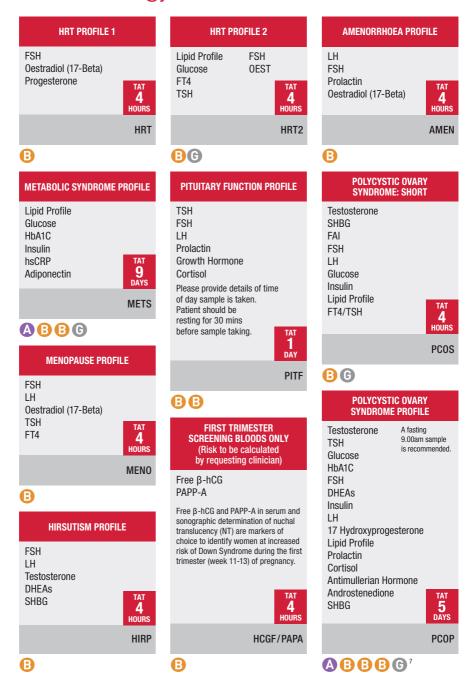
are shown on page 50

Samples can be taken, at any time during a patient's monthly cycle. Ambient, unspun sample stability has been validated for up to 5 days. Postal samples are therefore acceptable, and samples can also be collected and posted using TDL TINIES.

13.1 - 53.86.8 - 47.85.5 - 37.40.7 - 21.20.3 - 14.7

4 HOURS

AMH

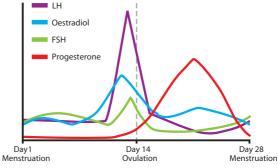


The tests in this section are drawn from all disciplines of diagnostic pathology and are listed in other appropriate sections in the Laboratory Guide.

PUBERTY

The beginning of the reproductive cycle of life – diagnosis tests may include:

- Oestradiol
- FSH
- LH
- Progesterone
- Androstenedione
- · DHEA sulphate
- Testosterone
- SHBG
- Prolactin



Follicular Phase Luteal Phase

THE MENSTRUAL CYCLE/PREGNANCY

This cycle controls female fertility and is influenced by hormone levels which impact bone health and many other aspects of female physiology. Pregnancy lasts 40 weeks and is divided into trimesters.

First Trimester (week 0-13): confirmation of pregnancy and associated tests may include:

- Pregnancy test (urine)
- · Quantitated Beta HCG (serum)
- Ectopic Pregnancy assessment (Beta HCG and Progesterone)
- Recurrent Miscarriage Profile
- Antenatal Screen
- Nuchal Scan with Free Beta HCG and PAPP-A or Non-Invasive Prenatal Test (Harmony)
 for risk assessment of Downs Risk (a DRP request form must be enclosed with samples,
 see back of guide, and an image of the scan attached to the request form).
 Contact TDL Genetics for details of Non-Invasive Prenatal Testing (NIPT)
- Chorionic Villus Sampling (CVS) for chromosomal analysis (PCR for Rapid Trisomy and karyotyping for the rarer abnormalities)
- Toxoplasma/Varicella Zoster/Parvovirus/CMV

Second Trimester (week 14-26):

testing is primarily directed at evaluating the actual and potential development of the baby and may include:

- Downs Risk Profile (Triple Test +)
- Amniocentesis for chromosomal analysis (AmnioPCR for Rapid Trisomy and karyotyping for the rarer abnormalities)
- · Glucose and Protein (urine or serum)

Third Trimester (week 27-40):

testing for foetal wellbeing and the health of the mother may include:

- Glucose and Protein (urine or serum)
- Toxoplasma
- Atypical antibody screening
- Group B Strep (From 35 weeks rectal and low vaginal swabs)
- Chlamydia

INFERTILITY

Infertility and its management is increasingly implicated in growing numbers of clinical disciplines. More recently, greater emphasis is being given to male infertility. Recent data suggests that approximately 40% of all infertility is ascribed entirely, or in part, to male factors, 40% to female factors with an additional 20% unexplained. Testing at the outset of infertility treatment can reduce some of the emotional and financial costs, as well as allowing couples to pursue other possible options.

- Hormones
- Lifestyle/Environmental
- Ovarian Reserve
- Unexplained Infertility/Implantation failure
- · Male Factors

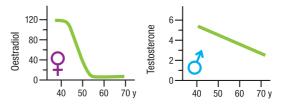
- Infection
- Chromosomes/Genetics
- Polycystic Ovary Syndrome
- Recurrent/Spontaneous miscarriage

AGEING

Reaching menopause and andropause is a gradual process with modulating hormones as ovarian function declines in women, and the more gradual, less defined and highly variable effect in men. Testing may include:

- Hormones (Menopause/Andropause Profile)
- Testosterone/Free testosterone/ Bioavailable Testosterone
- SHBG
- DHEAs
- · Thyroid function
- Osteoporosis/Bone Markers

General patterns of age-related decline in estradiol levels in women (left) and total testosterone levels in men (right)



ПЛ		пπ	TV
IN	FE	KII	H Y

HORMONES			
FEMALE	MALE		
FSH – day 2/3	Testosterone/Prolactin/FSH/LH		
LH	Sex Hormone Binding Globulin		
Oestradiol	Inhibin B (male)		
Antimullerian Hormone (AMH)	Male Hormone Profile		
Progesterone – day 21	Andropause Profile		
Female Hormone Profile	Insulin Resistance		
Prolactin	Erectile Dysfunction		
	Impotence Profile		

INFECTION			
FEMALE	MALE		
High Vaginal swab	Investigations for prostatitis/urethritis		
Cervical swab	Mycoplasma Genitalium		
Bacterial Vaginosis screen	Ureaplasma		
Toxoplasma	Chlamydia/Gonorrhoea		
Chlamydia/Gonorrhoea	Chlamydia in Semen		
CMV	Hep B sAg/Hep B Core Abs/Hep C/HIV 1&2		
Syphilis	Herpes Simplex I/II by PCR		
Hep B sAg/Hep B Core Abs/Hep C/HIV 1&2	Semen culture		
Herpes Simplex I/II by PCR	Syphilis		
STI Profiles	STI Profiles		
Infection screening by PCR	Infection screening by PCR		

LIFESTYLE/ENVIRONMENT			
FEMALE	MALE		
Well Person Profile DL6	Fit for Fertility Male Profile		
Zinc, Lead	Well Person Profile DL6		
Trace Metal Profile (blood)	Trace Metal Profile (blood)		
Antioxidant Activity	Antioxidant Activity		
Thyroid Profiles	Thyroid Profiles		
Vitamin Profiles	Vitamin Profiles		
Vitamin D (25 OH)	Vitamin D (25 OH)		
Folate	Folate		
Selenium	Selenium		
Omega 3/Omega 6	Zinc		
	Omega 3/Omega 6		
	Oxidative Stress (ROS) in Semen		

CHROMOSOMES/GENETICS			
FEMALE	MALE		
Chromosome/Karyotype (parental) Fragile X (female) Cystic Fibrosis Screen Tay Sachs Jewish Carrier Profile Inherited disorders (specific)	Chromosome/Karyotype (parental) Male Hormone Profile Y-Chromosome microdeletion Fragile X Male Cystic Fibrosis Screen Tay Sachs Jewish Carrier Profile Inherited disorders (specific)		

OVARIAN TUMOUR				
FEMALE				
Antimullerian Hormone (AMH)	CA125/HE4			

POI.	YCYS	TIC O	VARY	SYN	IDRO	MF

FEMALE

Polycystic Ovary Profile

UNEXPLAINED INFERTILITY/IMPLANTATION FAILURE /RECURRENT MISCARRIAGE			
FEMALE	MALE		
Recurrent Miscarriage Profile Reproductive Immunophenotyping (CD 3/4/8, CD 5/19, CD 16/56/69) NK Cell Profile Antiphosholipid Antibodies Lupus anticoagulant and Anticardiolipin Antibodies Thrombotic Profile Antinuclear antibodies Anti-Thyroglobulin Antibodies Chromosome/Karyotype (parental) Infection screening (See Infection)	Chromosome/Karyotype (parental) Y-Chromosome microdeletion Sperm DNA Fragmentation Sperm aneuploidy Infection screening (See Infection) Heavy Metals (Blood) Male Recurrent Miscarriage Profile Oxidative Stress in Semen (Reactive Oxygen Species)		

SPERM HEALTH		
MALE		
See TDL Andrology on page 60.		

The single most important factor determining a man's fertility potential is the production of healthy sperm. A semen analysis has classically been used as the marker of this potential, by providing information about the sperm count, motility and morphology. However, there are other parameters given in a semen analysis that are often neglected or overlooked, which may indicate important pathologies – such as infection, prostatic disease, immunological infertility, retrograde ejaculation, malformation or obstruction of the genital tract, tumour, and congenital or endocrine disorders.



Early diagnosis of the male factor is important in order to detect any underlying pathology, determine the extent of infertility and ensure appropriate treatment. It may also avoid unnecessary investigations for the female partner, particularly if her age is a limiting factor.

For men who have had a vasectomy, clearance should only be given when there is no evidence of presence of sperm in two consecutive semen samples. It is therefore vital to ensure that results are reported according to best practice guidelines. Special clearance may be given at the doctor's discretion when there are persistent non-motile sperm present.

Guidelines for Producing Samples

Ideally semen samples should be produced on-site at TDL's Patient Reception at 76 Wimpole Street. Ideally patients must abstain from ejaculation for 2-3 days prior to the test, but no less than 2 days and no longer than 5 days before the test. This requirement is important for semen analyses and post vasectomy analyses to ensure reliability of results. It is possible that samples that do not comply with guidelines for abstinence and collection may not be able to be processed. All semen samples must be produced directly into the sterile containers provided by The Doctors Laboratory.

All containers are weighed and batch tested for sperm cytotoxicity. In exceptional circumstances when semen samples are produced off-site, they can only be accepted by the Andrology Department in sample containers provided by TDL.

WHO 2010 guidelines state that two semen analyses should be performed before any diagnosis is confirmed. This may require requests for two (separate) semen analyses.

Appointments

It is important to make an appointment for all semen samples (on or off site) whether for a comprehensive semen analysis or post vasectomy analysis. It may be necessary to give patients who attend without an appointment a specific time to re-attend. The first appointments for post vasectomy samples should usually be 12 weeks and 20 ejaculations after surgery.

Appointments can be made by calling $020\ 7025\ 7940$. There is an attendance fee of £45.00 in addition to pathology charges.

Please complete a Pathology Request Form for your patient. If you would like to request other pathology, you can use the same form or complete a second additional form. Results will usually be reported to you within 48 hours.

If you would like to discuss these tests, or any aspect of this service, please contact TDL Andrology on 020 7025 7940 or email andrology@tdlpathology.com for further information.

SEMEN				
TEST	CODE	SAMPLE REQS	TAT	
Oxidative Stress in Semen (ROS + MIOXSYS)	SROS	Semen ¹	1 day	
Retrograde Ejaculation	RTR0	Contact Lab	2 days	
Semen Analysis, Comprehensive*	SPER	Semen ¹	2 days*	
Semen Analysis, Post-Vasectomy**	PVAS	Semen ¹	2 days	
Semen Analysis, Vasectomy Reversal*	SPER	Semen ¹	2 days*	
Semen Culture	SPCU	Semen	2-4 days	
Semen Fructose	SPCF	Semen	2 days	
Semen Leucocytes	PMNS	Semen	2 days	
Semen Parameters	SPOD	Semen ¹	1 day	
Semen Zinc	SPCZ	Semen	up to 10 days	
Sperm Aneuploidy	SPPL	Semen ¹	4 weeks	
Sperm Antibodies (Serum)	ASAB	В	5 days	
Sperm Antibodies/MAR Test (Semen)†	ASPA	Semen	1 day	
Sperm Comet®	CMET	Semen	1-2 weeks	
Sperm Count (Post-Vasectomy)	PVAS	Semen ¹	2 days	
Sperm DNA Fragmentation (SCSA)	SEXT	Semen ¹	1-2 weeks	
Sperm Morphology (Kruger strict criteria)	MRPH	Semen ¹	2 days	
Semen parameters may be requested INDIVIDUALLY (eg count only, vitality only, etc). Please request as SPOD and indicate on the request form which parameter is required.				
Semen Parameters	SPOD	Semen 1	1 day	

^{*} If required, comprehensive semen analysis can be reported within 4 hours, with morphology to follow.

- 1 Analysis of post vasectomy semen samples should not occur until 12 weeks post-surgery and after a minimum of 20 ejaculates
- 2 Semen samples must be analysed within 4 hours of production, and in cases where sperm is found a repeat analysis must be performed within 1 hour of production
- 3 Semen should be provided in weighed specimen containers provided by TDL Andrology
- 4 Sexual abstinence should be between 2 and 7 days

^{**} For men who have had a vasectomy, clearance should only be given when there is no evidence of presence of sperm in a single ejaculate when recommendations are met. It is rare that a 'diagnosis' is made without confirmation, therefore patients/clinicians should be able to freely request a second confirmatory sample. Special clearance may be given at the doctor's discretion, when there are <100 000/ml non-motile sperm present after the assessment of two specimens in full accordance with recommendations. Recommendations, as given by the Association of Biomedical Andrologists, the British Andrology Society and the British Association of Urological Surgeons 2016, are as follows:</p>

[†] Sperm antibodies in semen are measured as part of the routine semen analysis.

BY SPECIAL ARRANGEMENT

Sperm swim test
Sperm preparation for overnight survival
Sperm motility and vitality testing for epididymal toxicity
Sperm retrieval procedures (biopsy, PESA, MESA)

Sperm cryopreservation and storage (undertaken by Andrology Solutions – HFEA licensed)

All men who store sperm must be screened for HIV 1&2, Hepatitis B, Hepatitis C and HTLV. Under HFEA regulations, sperm can be stored for an initial period of 10 years with formal consent. All patients are offered counselling prior to sperm cryopreservation.

These arrangements, and details for other specialist semen tests, are available on request. Please contact TDL Andrology on 020 7025 7940 or email sheryl.homa@tdlpathology.com for further information.

Sperm DNA fragmentation

High sperm DNA fragmentation is associated with reduced natural pregnancy rates and assisted conception pregnancy rates as well as live birth rates. In addition, DNA fragmentation leads to higher miscarriage rates as published in the ESHRE Recurrent Pregnancy Loss 2017 Guideline. High levels of DNA fragmentation may be reduced by considering varicocele repair, treatment of underlying infections or inflammation, changes in lifestyle or with antioxidant supplements.

When requesting Sperm DNA Fragmentation there are two options. Please specify whether the request is for sperm DNA fragmentation by **SCSA** or **COMET**.

Sperm Chromatin Structure Assay (SCSA®) [SEXT]

This test has the ability to measure large numbers of cells (between 5,000 and 10,000 sperm), rapidly in an ejaculate. The SCSA® test monitors the changes in fluorescence of a probe, acridine orange, to detect both single and double DNA strand breaks using flow cytometry. It has been developed using human and animal models over the last 35 years and is one of the most statistically robust tests available for sperm DNA fragmentation. It is a standardised, validated CLIA approved test with high reproducibility and low variability. The test requires a minimum sperm count of approximately 1 million/ml.

Sperm COMET® Assay [CMET]

When sperm counts are limited, DNA fragmentation can be effectively assessed using the Comet® assay as only \sim 5,000 sperm are required. The Comet® assay uses electrophoresis to determine abnormal sperm, and can measure both single and double strand breaks. Unlike the SCSA® test, the comet assay may be subject to inter-observer variability and may be less statistically robust as it measures low counts of 50 to 100 sperm cells from each sample.

Sperm Aneuploidy

Chromosomal abnormalities may be somatic cell in origin, in which case they can be detected by a simple blood karyotype analysis. However, most sperm chromosome anomalies arise as a result of errors during meiosis, which cannot be detected by a blood karyotype analysis. These anomalies can only be detected by looking at the sperm chromosomes directly. Studies have shown that sperm with a high rate of aneuploidy have a negative impact on pregnancy rate and are associated with recurrent pregnancy loss.

This test uses fluorescent in situ hybridisation (FISH) to label individual chromosomes with specific probes. Hundreds of sperm are assessed from one ejaculate. There are limitations to the test as only 5 probes are currently used routinely for analysis (three of the 22 autosomes: chromosomes 13, 18 and 21, and the sex chromosomes, X and Y), although others are available upon specific request. The results are reported showing incidence of disomy or nullisomy for each of the autosomes and for both sex chromosomes. A sex chromosome ratio is also reported. It is CE marked.

Instructions for collection of Sperm DNA and Aneuploidy specimens

Sperm DNA Fragmentation or Sperm Aneuploidy testing are not part of the Comprehensive Semen Analysis and need to be requested as a separate test, test code SEXT and SPPL, respectively. Semen samples ideally need to be frozen as soon as possible after liquefaction, but not longer than 60 minutes post ejaculation. Samples must be snap-frozen for Sperm DNA Fragmentation and cryopreserved in TYB for Sperm Aneuploidy. If samples are prepared by another laboratory. Two cryovials containing not less than 0.25 mls of semen is required. Frozen samples can be sent to, or collected by TDL, by arrangement, and must be accompanied with relevant patient details, the sperm count and GDPR consent form. A count of a minimum 1 million/ml is required for accurate DNA and aneuploidy reporting.

Oxidative Stress in Semen (ROS + MIOXSYS) and Male infertility

There is now growing evidence to support a link between oxidative stress and male infertility. It is the underlying cause of sperm DNA damage and impairs semen parameters and fertilisation, adversely affects embryo development and is associated with reduced pregnancy rates. It may also increase the risk of miscarriage. High levels of ROS may be reduced by considering varicocele repair, treatment of underlying infections or inflammation, changes in lifestyle or with antioxidant supplements.

TDL provides a comprehensive assessment of oxidative stress by **combined measurement of Reactive Oxygen Species and Redox Potential**. Please request as oxidative stress test (code **ROS**).

The test includes combined testing for:

• Chemiluminescence Assay for Reactive Oxygen Species

Reactive Oxidative stress may be measured by a simple chemiluminescence test in semen, which measures the level of reactive oxygen species.

MIOXSYS Electrochemical Assay for Redox Potential

Oxidative stress may be determined by an electrochemical assay which measures the redox potential in semen. This test measures the overall difference between total oxidants and antioxidants in the system.

References

Homa ST, Vessey W, Perez-Miranda A, Riyait T, Agarwal A (2015). Reactive oxygen species (ROS) in human semen: determination of a reference range. J Assist Reprod Genet 32(5):757-64.

Vessey W, Perez-Miranda A, Macfarquhar R, Agarwal A, Homa S. (2014). Reactive oxygen species (ROS) in human semen: validation and qualification of a chemiluminescence assay. Fertil Steril. 102:1576-1583.

If you would like to discuss these tests, or any aspect of this service, please contact TDL Andrology on 020 7025 7940 or 020 7307 7373, or email andrology@tdlpathology.com.

Effects of ROS-induced Oxidative Stress on Sperm

- Lipid peroxidation which damages the sperm surface causing an abnormal morphology and impaired motility.
- Damage to proteins on cell surface responsible for cell signalling and may affect enzyme function inside the cell.
- · Increased semen viscosity.
- Peroxidation of DNA and subsequent unravelling or fragmentation.
- · Possible mutagenic effects.
- Damage to seminiferous epithelium, damage to tubules, testicular atrophy, reduced spermatogenesis.
- · Decrease in sperm vitality, motility.
- Impaired fertilization by affecting sperm capacitation and the acrosome reaction.

Causes of Elevated ROS Levels

- · Genito-urinary tract infection
- Prostatitis
- · Vasectomy reversal
- Varicocoele
- Cryptorchidism
- · Chronic disease
- Xenobiotics
- Chemical pollutants and occupational hazards
- Heavy metal exposure
- Removal of seminal plasma during sperm preparation for assisted conception
- Drugs cyclophosphamide, aspirin, paracetamol
- Smoking
- Excessive exercise
- Heat exposure
- Obesity
- Age

Semen samples need specialist handling – for this reason all requests for semen analyses should be made by appointment. Practices or patients should contact TDL Andrology on 020 7025 7940 to make appointments and to confirm instructions for sample collection.

TEST	CODE	SAMPLE REQS	TAT
7 STI Profile by PCR (7 tests from 1 Sample)	PP12	FCRU/PCR/TPV/Semen	2 days
Chlamydia (PCR swab)	SPCR	PCR	2 days
Chlamydia (Thin Prep)	TPCR	TPV	2 days
Chlamydia (Urine)	CPCR	FCRU	2 days
Chlamydia/Gonorrhoea (PCR Swab)	SCG	PCR	2 days
Chlamydia/Gonorrhoea (Rectal)	RSCG	PCR	2 days
Chlamydia/Gonorrhoea (Thin Prep)	TCG	TPV	5 days
Chlamydia/Gonorrhoea (Throat)	TSCG	PCR	2 days
Chlamydia/Gonorrhoea (Urine)	CCG	FCRU	2 days
Chlamydia/Gonorrhoea/Trichomonas by PCR	CCGT	FCRU/PCR/TPV	2 days
CT/GC/Trichomonas/Mgen (PCR Swab)	SGTM	PCR Swab	2 days
CT/GC/Trichomonas/Mgen (Urine)	CGTM	FCRU	2 days
Early Detection Screen PCR/NAAT	STDX	(A) 10mls or 2 x 4mls	3 days
		(Vacutainer only)	
Early Detection Screen PCR/NAAT with Syphilis	STXX	(B) (A) 10mls or 2 x 4mls	3 days
FASTest Sexual Health Screening Tests			See page 69
Gardnerella vaginalis by PCR	GVPC	FCRU/PCR/TPV	2 days
Gonorrhoea (Culture)	GONN	CS	2-3 days
Gonorrhoea (PCR swab)	SGON	PCR	2 days
Gonorrhoea (Thin Prep)	TGON	TPV	2 days
Gonorrhoea (Urine)	CGON	FCRU	2 days
Haemophilus ducreyi by PCR	DUCR	PCR	7 days
Hepatitis A Profile	HEPA	В	4 hours
Hepatitis B Surface Antigen	AUAG	В	4 hours
Hepatitis C Antibodies	HEPC	B	4 hours
Herpes Simplex I/II by PCR (Swab)	HERS	PCR	5 days
Herpes Simplex I/II by PCR (Urine)	HERD	FCRU/PCR/TPV	5 days
HIV 1 & 2/p24Ag	HDU0	B	4 hours
HIV/HBV/HCV (Early detection by PCR/NAAT) with Syphilis	STXX	B A 10mls or 2 x 4mls	3 days
HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure)	STDX	A 10mls or 2 x 4mls (Vacutainer only)	3 days
HIV Rapid RNA HIV-1 QUALITATIVE	LHIV	(Vacutainer only)	4 hours
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	(Vacutainer only)	4 hours
HPV (DNA and reflexed mRNA)	HPVT	TPV	3 days
HPV (HR mRNA types 16, 18 + others)	HPVH	TPV	2-3 days
HPV (Individual low & high risk DNA subtypes)	HP20	TPV/PCR	2-3 days
Lymphogranuloma Venerium (LGV)	LGVP	PCR* 42	1-2 weeks
Macrolide Resistance Test (Mgen)	MGR	FCRU/PCR	1-2 weeks
Mycoplasma genitalium by PCR	MGEN	FCRU/PCR/TPV	2 days
Mycoplasma genitalium/Ureaplasma by PCR	MUPC	FCRU/PCR/TPV	2 days
Rapid Xpert HIV-1 RNA Qualitative – Early Detection from 10 days	LHIV	(Vacutainer only)	4 hours

^{*} LGV can be added to a positive chlamydia sample using the same swab if requested within 4 days of receipt of result.

TEST	CODE	SAMPLE REQS	TAT
Rapid Xpert HIV-1 RNS Viral Load — Rapid Testing for HIV-Positive Patient Prognosis and Response To Antiretroviral Therapy	RHIV	(Vacutainer only)	4 hours
RPR (VDRL)	RPR	B	2 days
STD1 M/F STD Quad	STD1	FCRU	2 days
STD2 M/F STI Profile Plus (Urine and Serology)	STD2	FCRU (If culture swabs are needed please request separately)	4 days
STD3 Female STD Quad (PCR Swab and Serology)	STD3	PCR	2 days
STD4 Female STI Profile Plus (PCR Swab and Serology)	STD4	PCR (If culture swabs are needed please request separately)	4 days
STD5 Serology only	STD5	B	4 hours
STD6 Serology only without HIV	STD6	B	4 hours
STD8 Vaginitis/BV Profile using Culture & PCR Swab	STD8	PCR/STM	3 days
STD9 Symptomatic lesion sample using PCR Swab from lesion & PCR Swab	STD9	2 x PCR Swab	7 days
STI Profile: MSM1	MSM1	(E) /FCRU/PCR Swab Throat/PCR Swab Rectal	2 days
STI Profile: MSM2	MSM2	(3) /FCRU/PCR Swab Throat/PCR Swab Rectal	3 days
Swab for Culture (Any Site)	SWAB	STM [†]	2-4 days
Syphilis by PCR (chancre)	SYPS	PCR	5 days
Syphilis IgG/IgM	SERJ	В	4 hours
TPPA	TPPA	В	2 days
Trichomonas vaginalis by PCR	TVPC	FCRU/PCR/TPV	2 days
Ureaplasma urealyticum by PCR	UGEN	FCRU/PCR/TPV	2 days
Vaginitis/BV Profile using Culture & PCR Swab	STD8	PCR/STM	3 days

RAPID XPERT HIV-1

For some patients earlier diagnosis of HIV infection is important. **Xpert HIV-1 Qual** is a qualitative test that provides on-demand molecular testing for early diagnosis (from 10 days).

FOR PATIENT ON TREATMENT FOR HIV

Xpert HIV-1 Viral Load accommodates on demand testing and measurement of blood plasma HIV-1 RNA concentration (HIV viral load/40 copies/ml) which has been established as the standard of care in assessing HIV-positive patient prognosis and response to antiretroviral therapy. Assessment of viral load levels is a strong predictor of the rate of disease progression and, by itself or in combination with CD4 T-cell counts, has great prognostic value.

- Improve Patient Care: Same day results support better clinical decisions
- Increase Efficiency: Rapid results enable earlier adjustments to appropriate therapy
- Strengthen Communities: Quick decisions can help reduce drug resistance

Chlamydia

Chlamydia is the most common curable STI diagnosed in the UK. Often asymptomatic, anyone who is sexually active is considered to be at increased risk of chlamydia infection. It is the most commonly recognised, screened and treated of all STI's. Allow 6 weeks before re-testing to avoid picking up the DNA from a previous infection.

Gonorrhoea

Gonorrhoea is caused by the bacterium *Neisseria gonorrhea*, which multiplies easily in the mucous membranes of the male and female reproductive tract. It can cause serious and permanent health conditions if not treated. Symptoms of gonorrhoea are usually overt in men with white, yellow, or green discharge from the penis. Gonorrhoea can also infect the throat and rectum – individual PCR swabs from **each site** should be taken to screen for gonorrhoea. Resistance to antibiotics is increasing and treatment is now combined oral and injectable antibiotics. **Partners should be treated at the same time with retesting after two weeks to confirm clearance** – **test of cure is recommended following treatment for gonococcal infections**.

Mycoplasma Genitalium (M.Gen)

M.gen is an important sexually transmitted pathogen detectable only by NAAT. M.gen lacks a cell wall and has limited treatment options. It spontaneously develops resistance to antimicrobials. BASHH recommends treatment with Resistance Guided Therapy – testing for M.gen with macrolide resistance determination. M.gen cannot be cultured for diagnostic testing. M.gen prevalence is higher than GC, and in some populations can be similar to CT. M.gen risk factors are similar to CT and consider testing M.gen in all males with non-GC urethritis and all individuals with signs or symptoms of PID, cervicitis, endometritis, associated infertility, ano-rectal condition or epididymo-orchitis. Partner testing is advised for current partners only. Rectal infections are common, and appear to be an important reservoir for resistance. BASHH guidance – all patients must return for test of cure at 3-5 weeks.

Macrolide Resistance Testing (M.gen)

Prevalence of M.gen in men and women in the general population is 1-2%. *Mycoplasma genitalium* has been implicated as a cause of acute and chronic non-chlamydial non-gonococcal urethritis in males and post coital bleeding, cervicitis, endrometritis and pelvic inflammatory disease in females. It is a sexually transmitted, fastidious microorganism that is extremely difficult to culture — with nucleic acid amplification testing (NAAT urine or swab) being the only method available for routine *M. genitalium* detection. Macrolides are generally considered the first-line treatment for *M. genitalium* infections. However, **resistance to macrolides** seems to be increasing worldwide typically exceeding > 40% in male patients who are detected positive for M.gen at screening.

M.gen can be requested as a single PCR test or with CT/GC, with or without other testing options. Important updates to the UK BASHH *M. genitalium* management guidelines are taking the issue of antimicrobial resistance seriously. The draft guidelines have been posted for consultation and include a grade 1B recommendation to test for antimicrobial resistance, stating the importance of knowing the macrolide resistance status to determine whether azithromycin should be prescribed. The guidelines aim to support laboratories in making a case for increased funding to bring in the necessary testing to manage *M. genitalium* infections and associated antimicrobial resistance.

Ureaplasma

U. Urealyticum and parvum are strains of bacteria that can lead to urinary tract infection and pelvic inflammation. Usually asymptomatic, it is part of the normal genital flora of both men and women. It is found in about 70% of sexually active humans. In males with lower sperm quality, ureaplasma infection could lead to a more pronounced decreased in some seminal parameters and compromise sperm motility.

Trichomoniasis

Trichomoniasis is caused by a tiny parasite called *Trichomonas vaginalis* — and is one of the most common STI's worldwide. Frequency of coinfection with other STI's is well recognised, and notably, infection increases the risk of HIV transmission in both men and women. It is associated with adverse pregnancy outcomes, infertility, and cervical neoplasia. Some women may mistake this infection for a yeast infection or bacterial vaginosis since the symptoms are similar: frothy discharge, strong vaginal odour, pain on intercourse, irritation and itching. Men can get trichomoniasis too, but they don't tend to have symptoms. It seems to be linked to male factor infertility. Partners (male or female) need to be treated to avoid ongoing re-infection. Infected women who are sexually active have a high rate of reinfection, **thus re-screening at 3 month post treatment could be considered**

Gardnerella vaginalis

'Gardnerella vaginalis is a bacterium rather than a sexually transmitted infection. It is part of the normal vaginal flora but, when the normal balance of bacteria in the vagina is disrupted, it can flourish and overgrow leading to bacterial vaginosis. Does it matter if it not an STI? Yes, because it can be characterised by a fishy smelling, white vaginal discharge, itching, burning, and irritation, and there are some known pregnancy and pelvic inflammatory conditions associated with Gardnerella as well as a higher risk of getting other STI's.

In a patient with signs and symptoms suggestive of bacterial vaginosis detection of Gardnerella vaginalis provides supportive evidence of bacterial vaginosis. It can, however, be detected in asymptomatic individuals and it can also be absent in patients with bacterial vaginosis which has been caused by overgrowth of other similar organisms such as Mobiluncus and Atopobium species. Results should be interpreted in line with patient's clinical symptoms and microscopy.

Herpes/Herpes Simplex Virus I/II

Genital herpes caused by the herpes simplex virus (HSV). The virus lives in the nerves and when active it travels to the surface of the infected area and makes copies of itself – called shedding, because new virus cells can at this time rub off onto another person. The virus travels back down the nerve to a ganglion usually at the base of the spine where it lies dormant for a while. It causes painful blisters on the genitalia and surrounding areas. It can be passed through intimate sexual contact and for this reason is referred to as an STI. Once infected, it remains a chronic long term condition with the virus remaining with recurrent activity with variable frequency. There are two types of herpes simplex virus: Type I and Type 2. Both are highly contagious and can be passed easily from one person to another. There is no cure for genital herpes, the symptoms can usually be controlled by antiviral medication. Although using a condom can reduce the risk of herpes transmission, condoms are not 100% effective since herpes can be spread from skin-to-skin.

Lymphogranuloma venereum (LGV)

LGV is a type of chlamydia bacteria that attacks the lymph nodes. It is seen predominantly in gay and bisexual men, and very rarely seen in the UK in heterosexual men and women.

Nearly all LGV infections seen in the UK in recent years have been in the rectum. Within a few weeks of becoming infected, most people get painful inflammation in the rectum with bleeding, pus, constipation or ulcers, sometimes with fever, rash and groin, armpit or neck swelling. Left untreated, LGV can cause lasting damage to the rectum that may require surgery. LGV in the penis might cause a discharge and pain when urinating, with swollen glands in the groin. LGV in the mouth or throat is rare but can cause swollen glands in the neck.

Investigation for possible LGV symptoms is by PCR swab taken from the rectum and penis. If LGV infection is suspected in female patients, cervical and vaginal PCR swabs should be taken. Samples are first tested for chlamydia and if chlamydia is detected, if LGV is suspected, swabs can be further tested, if requested, for LGV as an additional tests, using the same swab samples. Sexual contact partners should also be checked.

FASTest Test Now Sexual Health Screening-ahead of expected time

FAST SSC

Fast Screen SHORT

HIV 1&2/p24 Ag Syphilis IgM/IgG FAST Urine CT/GC



FSSC

FAST USC

Fast Screen with URINE

HIV 1&2/p24 Ag Hep B sAg Hep C Abs Syphilis IgG/IgM FAST Urine CT/GC



FUSC



FAST SSS

Fast Screen SHORT with SWAB

HIV 1&2/p24 Ag Syphilis IgM/IgG FAST Swab CT/GC



FSSS

FCRU

FAST SSC

Fast Screen with SWAB

HIV 1&2/p24 Ag Hep B sAg Hep C Abs Syphilis IgG/IgM FAST Swab CT/GC



FSWS





B	PCF

FAST	SINGLE TESTS	Sample type
FCT	FAST Chlamydia Urine	FCRU
FGN	FAST Gonorrhoea Urine	FCRU
FCG	FAST CT/GC Urine	FCRU
FSCT	FAST Chlamydia PCR Swab	PCR Swab
FSGN	FAST Gonorrhoea PCR Swab	PCR Swab
FSCG	FAST CT/GC PCR Swab	PCR Swab
FTCG	FAST CT/GC Throat PCR Swab	PCR Swab
FRCG	FAST CT/GC Rectal PCR Swab	PCR Swab

STI's can be caused by virus, fungus, parasite or bacteria. Anyone who is sexually active may be at risk of acquiring an STI. The risk is higher for those with increased numbers of sexual partners, or who have had sex with someone who has/had many partners, or have had unprotected sex.

STI		INCUBATION PERIOD	SAMPLE SITE
Chlamydia CT	Bacterial	1-3 weeks, up to 6 weeks	Urine Cervix/Vagina Cervix/Vagina
Gonorrhoea GC	Bacterial	2–7 days, up to 1 month	Urine Cervix/Vagina Cervix/Vagina Cervix/Vagina
CT/GC Combined	Bacterial	1-3 weeks, up to 6 weeks	Urine Cervix/Vagina Cervix/Vagina Rectum Throat
Mycoplasma genitalium	Bacterial	Symptoms develop at 1–3 weeks	Urine GU Site Cervix/Vagina
Ureaplasma urealyticum	Bacterial	Symptoms develop at 1–3 weeks	Urine GU Site Cervix/Vagina
Trichomonas vaginalis	Parasitic	4-28 days, many patients are asymptomatic carriers	Urine GU Site Cervix/Vagina
Gardnerella vaginalis	Bacterial	Imbalance of normal flora	Urine GU Site Cervix/Vagina
Bacterial Vaginosis (BV)	Bacterial	Imbalance of normal flora	Cervix/Vagina
Herpes Simplex Viral I/II	Viral	2-14 days, testing is most appropriate for patients with symptomatic lesion(s)	Herpes lesion
Human Papillomavirus	Viral	HPV is the most common sexually transmitted infection – usually asymptomatic	Cervical cells Cells/papilloma from site (throat/penile/anal)
Genital warts	Viral	Weeks/months after exposure	GU Warts
Syphilis/Herpes	Bacterial/	Whenever active lesions are present	Symptomatic lesion

TEST	TEST CODE	SAMPLE TYPE	TAT
Chlamydia Chlamydia Chlamydia	CPCR SPCR TPCR	First catch Urine PCR Swab Thin Prep Vial	2 days 2 days 2 days
Gonorrhoea by PCR	CGON	First Catch Urine	2 days
Gonorrhoea by PCR	SGON	PCR Swab	2 days
Gonorrhoea by PCR	TGON	Thin Prep Vial	2 days
Gonorrhoea by CULTURE	GONN	Black Charcoal swab	2-3 days
CT/GC	CCG	First Catch Urine	2 days
CT/GC	SCG	PCR Swab	2 days
CT/GC	TCG	Thin Prep Vial	5 days
CT/GC	RSCG	PCR Swab	2 days
CT/GC	TSCG	PCR Swab	2 days
Mycoplasma genitalium by PCR	MGEN	First Catch Urine	2 days
Mycoplasma genitalium by PCR	MGEN	PCR Swab	2 days
Mycoplasma genitalium by PCR	MGEN	Thin Prep Vial	2 days
Ureaplasma by PCR	UGEN	First Catch Urine	2 days
Ureaplasma by PCR	UGEN	PCR Swab	2 days
Ureaplasma by PCR	UGEN	Thin Prep Vial	2 days
Trichomonas vaginalis by PCR	TVPC	First Catch Urine	2 days
Trichomonas vaginalis by PCR	TVPC	PCR Swab	2 days
Trichomonas vaginalis by PCR	TVPC	Thin Prep Vial	2 days
Gardnerella vaginalis by PCR	GVPC	First Catch Urine	2 days
Gardnerella vaginalis by PCR	GVPC	PCR Swab	2 days
Gardnerella vaginalis by PCR	GVPC	Thin Prep Vial	2 days
Bacterial Vaginosis (BV) Profile by both MICROSCOPY and PCR	STD8	Both Microscopy & PCR swab	3 days
Herpes by PCR	HERS	PCR Swab	5 days
Herpes by PCR	HERD	First Catch Urine	5 days
HPV DNA/mRNA	HPVT	Thin Prep Vial	3 days
HPV Typed DNA	HP20	PCR Swab	2-3 days
HPV Typed DNA	HP20	Cells/Papilloma	2-3 days
HPV Typed DNA	HPVT	Thin Prep Vial	3 days
HPV Typed DNA	HP20	PCR Swab	2-3 days
HPV Typed DNA	HP20	Cells/Papilloma	2-3 days
Syphilis/Herpes Lesion Profile	STD9	PCR Swab	

BLOOD		INCUBATION PERIOD	SAMPLE SITE	
Syphilis	Bacterial	9-21 days, but up to 90 days	Blood	
Herpes Simplex Virus I/II	Viral	lgG 4–6 weeks after exposure lgM 5–35 days after exposure, after which test lgG	Blood Blood	
HIV	Viral	Usually 10–90 days, but up to 180 days	Blood Blood	
Нер В	Viral	Usually 45–180 days, average of 60–90 days	Blood Blood	
Hep C Ab	Viral	Usually 9–180 days, average of 45–65 days	Blood Blood	

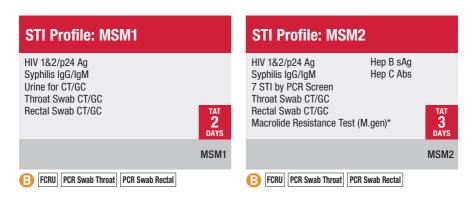
EARLY DETECTION PROFILES BY PCR	INCUBATION PERIOD	SAMPLE SITE
7 STIs by PCR	One sample for 7 STI Tests	Urine Cervix Vagina
HIV/HBV/HCV	Early Detection Screen by PCR Multiplex (HIV from 10 days)	Blood

TEST	TEST CODE	SAMPLE TYPE	TAT
Syphilis IgG/IgM	SERJ	В	4 hours
Herpes IgG (past infection) Herpes IgM (current/recent)	HERP HERM	B B	2 days 2 days
HIV I&II/p24 antigen (screening from 45 days post exposure (BHIVA))	HDU0	B	4 hours
Hep B surface antigen	AUAG	B	4 hours
Hep C Antibodies	HEPC	В	4 hours

TEST	TEST CODE	SAMPLE TYPE	TAT
Chlamydia Gonorrhoea	PP12	Thin Prep Vial	2 days
Mycoplasma genitalium Macrolide Resistance Test (M.gen)*	PP12	First Catch Urine	2 days
Ureaplasma genitalium Trichomonas vaginalis Gardnerella vaginalis Herpes Simplex I/II	PP12	PCR Swab	2 days
*included if POSITIVE M.gen is detected from the same sample			
HIV 1&2 RNA Hepatitis B (HBV DNA) Hepatitis C (HCV RNA)	STDX	(Vacutainer only)	3 days



VAGINITIS/BV PROFILE SYMPTOMATIC LESION SAMPLE STD8 STD9 **USING CULTURE & PCR SWAB** USING PCR SWAB FROM LESION Candida species Syphilis by PCR Gardnerella vaginalis by PCR Herpes Simplex I/II by PCR Trichomonas vaginalis by PCR (from single swab) TAT 3 DAYS 7 DAYS STD8 STD9 PCR STM PCR PCR HIV/HBV/HCV SCREEN **EARLY DETECTION SCREEN WITH SYPHILIS** (HIV1/HIV2/HBV/HCV by PCR/NAAT) (HIV1/HIV2/HBV/HCV by PCR/NAAT) HIV1 and HIV2 (RNA) HIV1 and HIV2 (RNA) Hepatitis B Virus (HBV DNA) Hepatitis B Virus (HBV DNA) Hepatitis C Virus (HCV RNA) Hepatitis C Virus (HCV RNA) Syphilis IaG/IaM Samples must be received in the laboratory within 2 days of sample taking Samples must be received in the 3 DAYS 3 DAYS laboratory within 2 days of sample taking STDX STXX 10mls or 2x4mls (Vacutainer only) 7 STI PROFILE BY PCR (7 TESTS FROM 1 SAMPLE) CT/GC/TRICHOMONAS/MGEN (Urine, Swab, Thin Prep or Semen) Chlamydia trachomatis Chlamydia Gonorrhoea N. Gonorrhoea Trichomonas vaginalis Mycoplasma genitalium Mycoplasma genitalium Macrolide Resistance Test (M.gen)* Macrolide Resistance Test (Mgen)* Ureaplasma Trichomonas vaginalis All tests can be requested individually Gardnerella vaginalis *included if POSITIVE M.gen is detected Herpes Simplex I/II from the same sample. All tests can be requested individually *included if POSITIVE M.gen is detected from the same sample. **PP12** CGTM (Urine) / SGTM (Swab) FCRU OR PCR Swab FCRU OR PCR Swab OR TPV OR Semen



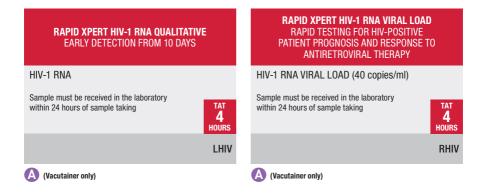
RAPID XPERT HIV-1

For some patients earlier diagnosis of HIV infection is important. **Xpert HIV-1 Qual** is a qualitative test that provides on-demand molecular testing for early diagnosis (from 10 days).

FOR PATIENT ON TREATMENT FOR HIV

Xpert HIV-1 Viral Load accommodates on demand testing and measurement of blood plasma HIV-1 RNA concentration (HIV viral load/40 copies/ml) which has been established as the standard of care in assessing HIV-positive patient prognosis and response to antiretroviral therapy. Assessment of viral load levels is a strong predictor of the rate of disease progression and, by itself or in combination with CD4 T-cell counts, has great prognostic value.

- Improve Patient Care: Same day results support better clinical decisions
- Increase Efficiency: Rapid results enable earlier adjustments to appropriate therapy
- Strengthen Communities: Quick decisions can help reduce drug resistance



TEST	CODE	SAMPLE REQS	TAT
Acute Viral Hepatitis Screen	AHSC	B	4 hours
Adrenal Cortex Antibodies	ACTX	В	2 days
ANCA (Anti-Neutrophil Cytoplasmic Abs)	ANCA	B	2 days
Anti-Actin Antibodies	AAA	B	5 days
Anti-Basal Ganglia Antibodies	ABGA	В	3 weeks
Anti-CCP Antibodies (RF)	ССР	В	2 days
Anti-Liver Cytosol Antibodies	ALCA	В	5 days
Anti-MOG [Myelin Oligodendrocyte Glycoprotein] Antibodies	AMOG	В	3 weeks
Anti-MUSK Antibodies	MUSK	В	2 weeks
Antinuclear Antibodies (titre & pattern)	ANAB	В	2 days
Anti-Phosphatidylserine Antibodies	PHTS	В	5 days
Anti-Phospholipase A2 Receptor	AA2R	В	3 weeks
Anti-Ri Antibodies	RIAB	В	3 days
Anti-SLA (Soluble Liver Antigen) Abs	LSA	В	10 days
Antistaphylolysin Titre (SGOT)	ASTT	B	3 days
Antistreptolysin Titre/ASOT	ASLT	В	2 days
Antisulfatide Antibodies	ASA	В	5 weeks
Aquaporin 4 Antibodies (Neuromyelitis Optica)	AQUA	B	2 weeks
Ascariasis Serology	ASC	B	5 days
Autoantibody Profile I	AUTO	B	2 days
Autoantibody Profile II	ENDO	B	2 days
Avian Precipitins (11 Species)	AVIA	B	5 days
Babesia Antibodies	BABE	B	3 weeks
Beta 2 Glycoprotein 1 Abs	B2GP	B	5 days
Borrelia Antibodies (Lyme Disease) IgG, IgM – see page 88	BORR	B 9,14	2 days
Borrelia Antibodies (Lyme Disease) IgM – see page 88	BORM	B	2 days
Borrelia Confirmation (Immunoblot) – see page 88	BORC	B 9,14	10 days
Brucella Serology	BRUC	B 9	2-3 weeks
C1 Esterase Inhibitor	C1EI	B	5 days
C3 Complement	C3	B	4 hours
C3/C4 Complement	COMP	B	4 hours
C4 Complement	C4	B	4 hours
Calprotectin	CALP	RF	5 days
Calprotectin/Elastase Profile	CEP	RF	5 days
Campylobacter Jejuni Antibodies	CJAB	В	5 days
Candida Antibodies	CANA	B	5 days
Candida Antigen	CCAG	B	5 days
Cardiolipin Antibodies (IgG+IgM)	ACAB	B	2 days
Cartilage Antibodies	ACA	B	5 days
CCP Antibodies (RF)	CCP	B	2 days
Centromere Autoantibodies	CENT	B	2 days
CH50 (Classical pathway)	CH50	B (Frozen)⁴	4 days
Chagas Disease Serology (S.American Trypanosomiasis) T. Cruzi	CHGA	B 9,14	10 days
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TEST	CODE	SAMPLE REQS	TAT
Chlamydia Species Specific (MIF) Ab Screen	CHAB	В	2 days
Chronic Fatigue Syndrome Profile	VIP1	A + B 10	5 days
Coeliac Disease – HLA DQ2/DQ8 Genotype	Q2Q8	A 9	10 days
Coeliac/Gluten Profile 2	GSA2	A B	10 days
Coeliac/Gluten Sensitivity Profile	GSA	В	2 days
Colloid Antigen-2 Antibodies	CA2A	В	2 weeks
Cotinine (Serum)	COT	B	4 days
Cotinine (Urine)	COTT	RU	2 days
Cryoglobulins	CRY0	J ⁶	10 days
Diamine Oxidase Activity	DIAM	B	2 weeks
Diphtheria Antibodies	DIPH	В	5 days
DNA (Double Stranded) Antibodies IgG	DNAA	В	2 days
DNA (Single Stranded) Antibodies	DNAS	В	5 days
Echinococcus (Hydatid) Antibodies	EFAT	B 9,14	5 days
Ehrlichiosis Antibodies	EHRL	B 9,14	10 days
Elastase (Faecal)	ELAS	RF	5 days
Elastase/Calprotectin Profile	CEP	RF	5 days
Endomysial Antibodies (IgA)	AEAB	В	2 days
Extractable Nuclear Antibodies (nRNP, Sm, Ro, La, Jo1, Sc170) CENP-B	ENA	В	2 days
Faecal Elastase	ELAS	RF	5 days
Farmers Lung Precipitins	FARM	В	5 days
Fasciola Hepatica Antibodies (Liver Fluke)	FASC	В	2 weeks
Ganglionic Acetylcholine Receptor Antibodies	GACA	В	1 month
Ganglioside GM1, GD1B, GQ1B Abs	GANG	B	5 days
Gastric Parietal Autoantibodies	GASP	В	2 days
Giardia Serology	GIAR	B	5 days
Gliadin Antibodies (IgG) (deamidated)	AGAB	В	2 days
Glomerular Basement Membrane Abs	AGBM	В	2 days
Glutamic Acid Decarboxylase Antibodies (GAD 65)	GAD	В	5 days
Gluten Allergy Profile	GLUT	ABB	10 days
Gluten Sensitivity Evaluation	GSA	В	2 days
Gluten/Coeliac Profile 2	GSA2	AB	10 days
Granulocyte Immunology	GRIM	AA	2 weeks
H. pylori Antibodies (IgG)	НВРА	В	2 days
H. pylori Antigen (Breath)	HBQT	J	5 days
H. pylori Antigen (Stool)	HBAG	RF	3 days
Haemophilus B Influenzae Antibodies	HINF	В	7 days
Histamine (Blood)	HITT	(Frozen plasma)	5 days
Histamine (Urine)	HITU	RU	5 days
Histamine Releasing Urticaria Test	CURT	В	10-14 days
Histone Antibodies	HISA	В	5 days
Histoplasmosis	HISP	B	10 days
		_	

TEST	CODE	SAMPLE REQS	TAT
HLA B27	HLAB	A 9	3 days
Human Anti-Mouse Antibodies	HAMA	(Frozen)	6 weeks
IgE (Total)	IGE	В	1 day
Immune-Complexes	IMCP	В	5 days
Immunoglobulins (IgG, IgM, IgA)	IMM	В	4 hours
Inner Ear Antigen (Ottoblot)	IEA	В	3 weeks
Insulin Antibodies	INAB	В	5 days
Interferon – Alpha	IFA	(Frozen)9	3 weeks
Interferon – Gamma	IFG	(Frozen)	3 weeks
Interleukin 1 Beta	ILB	(Frozen) 4,7	1-2 weeks
Interleukin 2	IL2	(Frozen) 4,7	1-2 weeks
Interleukin 4	IL4A	(Frozen) 4,7	1-2 weeks
Interleukin 6	IL6	(Frozen) 4,7	1-2 weeks
Interleukin 8	IL8	(Frozen) 4,7	1-2 weeks
Interleukin 10	IL10	(Frozen) 4,7	1-2 weeks
Interleukin 28b Genotype	IL28	A	2 weeks
Intrinsic Factor Antibodies	IFAB	В	2 days
Islet Cell Antibodies	ICAB	В	2 days
Legionella Antibodies	LEG0	В	2 days
Legionella Urine Antigen	LEGA	RU	1 day
Leptospirosis (Weil's Disease) Abs (IgM)	LEP	B	5 days
Leukotriene E4	LTE4	CU (Frozen)	3 weeks
Listeria Antibody	LIST	B	1 week
Liver Immunoblot	LIVI	B	5 days
Liver Kidney Microsomal Antibodies	LKM	B	2 days
Lupus Anticoagulant and Anticardiolipin Abs	LUPA	B C 4,18	2 days
Lyme Disease (Borrelia Abs) IgG, IgM	BORR	B 9,14	2 days
Lyme Disease (Borrelia Abs) IgM	BORM	B	2 days
Meningococcal Abs	MENI	B	2-4 weeks
Mitochondrial Antibodies	AMIT	B	2 days
Mitochondrial Antibodies M2	MAM2	B	2 days
Myasthenia Gravis Evaluation	MGE	B	5 days
Myelin Associated Glycoprotein Antibodies	MAG	B	5 days
Myelin Basic Protein Antibodies	MBPA	B	2 weeks
Myeloperoxidase Antibodies	MP0	B	2 days
Myocardial Antibodies	MYO	B	1 week
Myositis Panel	MYOS	B	2 days
Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2)	NEUR	В	10 days
NMDA Receptor Antibodies	NMDA	B	3 weeks
Nucleic Acid Antigen Antibodies	DNA	B	2 days
Oligoclonal Bands	CSF0	CSF + 🕒	5 days
Ovarian Autoantibodies	OVAB	В	2 days
Paragomius Serology	PRGM	В	2 weeks
Parathyroid Antibodies	PTHA	В	1 week

TEST	CODE	SAMPLE REQS	TAT
Pemphigus/Pemphigoid Autoantibodies	SKAB	В	2 days
Phospholipid Antibodies	PLIP	B	5 days
Pituitary Antibodies	PITU	B 4	1 month
Pneumococcal Antibodies – Serotype Specific	PASS	B	5 weeks
Pneumococcal Antibody Screen	PNEU	B	7 days
Proteinase 3 Ab	PR3	B	2 days
Purkinje Cell Antibody (Hu and Yo)	PURK	B	10 days
Q Fever (C Burnetti) Antibodies	QFEV	B 9	10 days
Rheumatoid Factor (Latex Test)	RF	B	1 day
Rheumatology Profile 1 (Screen)	RH	AB	2 days
Rheumatology Profile 2 (Connective tissue)	RH2	AABB	3 days
Rheumatology Profile 3 (Rheumatoid/Basic)	RH3	AB	2 days
Rheumatology Profile 4 (Systemic Lupus)	RH4	ABB	2 days
Rheumatology Profile 5 (Mono Arthritis)	RH5	AABB	3 days
Rheumatology Profile 6 (Rheumatoid Plus)	RH6	В	2 days
Rheumatology Profile 7 (Sjogren's Syndrome)	RH7	B	10 days
Rickettsial Species Antibody Profile	RICK	B	7 days
RPR (VDRL)	RPR	В	2 days
Saccharomyces Cerevisiae Antibodies	ASCA	B	2 weeks
Salivary Duct Antibodies	SAB	B	12 days
Scleroderma Immunoblot	SCLI	B	5 days
Sjogren's Syndrome	RH7	B	2 days
Skin (Pemphigus/Pemphigoid) Autoantibodies	SKAB	B	2 days
Skin Antibodies by Immunofluorescence	STSK	B	1 month
Sleeping Sickness Serology (African Trypanosomiasis)	TRYP	B 9	10 days
Smooth Muscle Antibodies	ASM0	B	2 days
Sperm Antibodies (Serum)	ASAB	B	5 days
Steroid Cell Antibody	SCA	B	2 days
Striated/Skeletal Muscle Antibody	STRA	B	2 days
Strongyloides Antibodies	STGA	B	10 days
Syphilis IgG/IgM	SERJ	B	4 hours
TB Quantiferon®-TB Gold*	TBQ4	Special tubes or (1)	3 days
Testicular Autoantibodies	TAB	B	2 days
Tetanus Antibody	TETA	B	5 days
Thyroid Abs (incl. Thyroglobulin + Thyroid Peroxidase Abs)	THAB	B	1 day
Thyroid Peroxidase Antibodies/Anti TPO	TPEX	B	1 day
Tissue Transglutaminase IgA (Coeliac)**	TAA	B	2 days
Tissue Transglutaminase IgG	TAAG	B	5 days
Torch Screen	TORC	B	2 days
Total Immune Function Evaluation	TIE	A+B 5,10	7 days
Total Immunoglobulin E	IGE	B	1 day
Toxocara Antibodies (IgG)	TFAT	B 9	5 days
Toxoplasma Antibodies (IgG+IgM)	TFAM	B 9	4 hours

TEST	CODE	SAMPLE REQS	TAT
Toxoplasma Antibody Full Evaluation (IgM, Dye Test, IgG Avidity)	TDYE	B 9	10 days
Toxoplasma by PCR	TXAG	A	5 days
TPPA	TPPA	B	2 days
Trichinella Serology	TRIC	B	5 days
Trypanosome (Chagas) Antibodies	CHGA	B 9,14	10 days
Tularaemia Antibodies	TULA	B 14	5 days
TSH-Receptor Antibodies	TSI	B	4 days
Urinary Methyl Histamine	UHIT	RU (Frozen)	2 weeks
Urticaria Test (Histamine Releasing)	CURT	B	10-14 days
Vascular Endothelial Growth Factor	VEGF	B	14 days
VDRL (RPR)	RPR	B	2 days
Voltage Gated Calcium Channel Antibodies	CCAB	B	3 weeks
Voltage Gated Potassium Channel Antibodies	VPCA	B	3 weeks
Whooping Cough (Pertussis) Antibodies	PERS	B	5 days
Whooping Cough (Pertussis) by PCR	PERP	Prenasal (posterior nasopharynx) swab	5 days
Yellow Fever Antibodies	YELL	B 9,14	10 days
Yersinia Antibodies	YERS	B	4 days
Zika Abs IgM and IgG	ZKAB	B	5 days

^{*} Please indicate clearly if samples have/have not been incubated prior to sending to the laboratory. If Lith Hep (green top) tube is used, please request as TBQ4 and ensure sample is received in the laboratory within 16 hours of sample taking.

^{**} If Tissue Transglutaminase (TAA) is regulated and is LOW (<0.1U/ml) total IgA will be reflexed. If total IgA is low (<0.1g/L) deamidated gliadin IgG will be reflexed. If Tissue Transglutaminase (TAA) is HIGH (>10 U/ml), endomysial IgA will be reflexed as confirmatory test.

HLA DQ2/DQ8				
TEST	CODE	SAMPLE REQS	TAT	
Coeliac Disease Profile 2	GSA2	AB	10 days	
Coeliac Disease – HLA DQ2/DQ8 Genotype	Q2Q8	A 9	10 days	
Coeliac/Gluten Sensitivity Profile	GSA	B	2 days	

GLUTEN SENSITIVIT' EVALUATION (COELIAC DISEASE ANTIE	
Endomysial IgA Gliadin deamidated IgG Total IgA Tissue Transglutaminase	(IgA)
	TAT 2 DAYS
	GSA
B	

COELIAC DISEASE PROF	ILE 2
Endomysial IgA Gliadin deamidated IgG Total IgA Tissue Transglutaminase HLA DQ2/DQ8	(IgA)
	TAT 10 DAYS
	GSA2
A A	







To determine the new Coeliac Pathway, a TDL audit of more than 12,000 requests for coeliac testing was carried out and results assessed within UKAS current guidelines. The purpose of these new guidelines is to reduce the risk of missing IgA deficient patients. The new pathway covers for this by adding a total IgA to all low **Tissue Transglutaminase (TGG)** IgA results to check for an IgA deficiency. If an IgA deficiency is identified, a reflex deamidated gliadin IgG will be carried out to determine whether the patient is likely to have coeliac disease with an IgG antibody.

The changes are as follows:

- 1 Initial TTG IgA samples are received and tested
- 2 If TTG IgA is LOW <0.1 U/ml reflex testing for Total IgA will be undertaken
- 3 If Total IgA is LOW <0.1 g/L then reflex testing for Gliadin IgG test will be undertaken
- 4 If TTG IgA is HIGH (>/= 10 U/ml then reflex testing for Endomesial IgA will be undertaken as a confirmatory test.

Endomysial IgA

- This is no longer available as a stand-alone test. If requested the request will default to TTG IgA.
- However if TTG IgA is positive endomysial IgA will be carried out as a confirmatory test.
 This only needs to be done once in the patients history.

Endomysial IgG requests

No longer available as a single test request.

Deamidated gliadin IgA requests

• This is no longer available. If requested the request will default to TTG IgA.

Deamidated gliadin IgG requests

 This can be requested as an individual standalone test as well as being incorporated into the coeliac pathway. This may be useful when testing children's samples.

Appropriate clinical comments will be added to results automatically – as follows:

TTG IgA result U/ml	Total IgA result for new assay g/L	Deamidated gliadin IgG result U/ml	Comment
0.1 to 10	N/A	N/A	Coeliac disease unlikely (please note that if the patient has no dietary gluten results may appear false negative)
>/= 10	N/A	N/A	Suggestive of coeliac disease
<0.1	>/= 0.1	N/A	Coeliac disease unlikely (please note that if the patient has no dietary gluten, results may appear false negative)
<0.1	<0.1	>/=10	Consistent with coeliac disease in a patient with selective IgA deficiency
<0.1	<0.1	<7	Coeliac disease unlikely (please note that if the patient has no dietary gluten, results may appear false negative)
<0.1	<0.1	7-10	Result equivocal suggest referral to a gastroenterologist for consideration of duodenal biopsy

Coeliac Disease (CD) is an immune-mediated disease of the intestines that is triggered by the ingestion of gluten in genetically susceptible individuals. Gluten is the major protein component of wheat, rye, and barley. Genetic predisposition does play a key role in CD, and it is well known that CD is strongly associated with specific HLA class II genes known as HLA-DQ2 and HLA-DQ8. Approximately 95% of CD patients express HLA-DQ2, and the remaining patients are usually HLA-DQ8 positive. The negative predictive value for both tests is higher than 99%. However, the HLA-DQ2 allele is common and is carried by approximately 30% of Caucasian individuals. Thus, HLA-DQ2 or HLA-DQ8 is necessary for disease development but is not sufficient for disease development; its estimated risk effect is only 36-53%.

Note: History taking is important if a patient has been on a gluten-free diet for 6-12 months, approximately 80% will lose their antibody response. After 5 years this increases to >90%.

RHEUMATOLOGY RHEUMATOLOGY RHEUMATOLOGY PROFILE 3 PROFILE 5 **PROFILE 1** Rheumatoid Disease Mono Arthritis FBC FBC FBC **ESR ESR ESR** Uric Acid Uric Acid Uric Acid RF RF RF Anti CCP Antibodies (RF) Anti CCP Antibodies (RF) Anti CCP Antibodies (RF) C Reactive Protein Antinuclear Autoantibodies **Antinuclear Autoantibodies** C Reactive Protein C Reactive Protein HLA B27 TAT 2 DAYS 2 DAYS 3 DAYS RH RH3 RH5 **A**B **A**B AABB RHEUMATOLOGY RHEUMATOLOGY RHEUMATOLOGY **PROFILE 2 PROFILE 4** PROFILE 6 General screen for Systematic Lupus Rheumatoid Factor **Connective Tissue Disorders Erythematosus** FBC FBC **ESR ESR** Anti CCP Antibodies (RF) Uric Acid Antinuclear Autoantibodies C Reactive Protein Antinuclear Autoantibodies Anti-dsDNA IgG Anti-dsDNA laG Antibodies to Extractable TAT Antibodies to Extractable Nuclear Antigens (ENA) 2 DAYS Anti nRNP Nuclear Antigens (ENA) Anti nRNP Anti Sm RH6 Anti Sm Anti Ro (SS-A) Anti Ro (SS-A) Anti La (SS-B) ß Anti La (SS-B) Anti Jo-1 Anti Jo-1 Anti Scl 70 Anti CENP Anti Scl 70 RHEUMATOLOGY Anti CENP RF **PROFILE 7** Anti CCP Antibodies Sjogren's Syndrome Anti CCP Antibodies Anti Cardiolipin Autoantibodies HLA B27 Complement 3.4 Anti RO (SS-A) C Reactive Protein C Reactive Protein Anti La (SS-B) CFNP-B Salivary antibodies (SAB) C Reactive Protein TAT 2 DAYS 3 DAYS 10 DAYS RH2 RH4 RH7 AABB ABB ß

Patients with Irritable Bowel Syndrome (IBS) may benefit by testing for Calprotectin, see page 77 for details.

AUTOANTIBODY PROFILE I Thyroid Peroxidase Antibodies **Antinuclear Antibodies** Mitochondrial Antibodies Smooth Muscle Antibodies Gastric Parietal Cell **Antibodies** LKM TAT 2 DAYS **AUTO** B



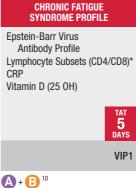
B

CEP





RF



Tropical and travel related immunology

TEST	CODE	SAMPLE REQS	TAT
Amoebic (E. histolytica) Antibodies	AFAT	В	2 days
Amoebic (E. histolytica) PCR	AMAG	RF	2 days
Bilharzia (Schistosome) Antibody Screen	BILH	B 14	10 days
Bilharzia (Schistosome) Antigen	SHAG	В	15 days
Bilharzia (Urine)	USCH	RU ¹⁴	2 days
Borrelia Antibodies (Lyme Disease) IgG, IgM	BORR	B 9,14	2 days
Borrelia Antibodies (Lyme Disease) IgM	BORM	В	2 days
Borrelia Confirmation (Immunoblot)	BORC	B 9,14	10 days
Cryptosporidium Detection by PCR	CRPA	RF	2 days
Dengue Virus Serology	DENG	B 9,14	5 days
DVT/Pre-travel Screen	DVT1	A A B 9	5 days
Echinococcus (Hydatid) Antibodies	EFAT	B 9,14	5 days
Enteric Organism Rapid Detection	EORD	RF	2 days
Filaria (Lymphatic and Non-Lymphatic) Antibodies	FIFA	B 9,14	10 days
Insect/Worm/0va/Cysts	FLEA	Send Specimen 9,14	5 days
Leishmania Antibodies	LEIS	В	5 days
Malarial Antibodies (Pl. falciparum)	MALA	B 9,14	5 days
Malarial Antibodies (species specific)	MALS	B 9,14	10 days
Post-Travel Screen 1 (Prior to 6 weeks)	PTS	A B G 14	10 days
Post-Travel Screen 2 (Prior to 6 weeks)	PTS2	A B B B G 14	10 days
Pre-Travel Screen (DVT)	DVT1	A A B ⁹	5 days
Rickettsial Species Antibody Profile	RICK	В	7 days
Schistosome (Bilharzia) Antibodies	BILH	B 14	10 days
Schistosome Antigen	SHAG	В	15 days
Toxoplasma Antibodies (IgG+IgM)	TFAM	B 9	4 hours
Tropical Screen (from 6 weeks post-travel)	TROP	B B 9,14	10 days
Zika Abs IgM and IgG – Antibody detection from 15 days	ZKAB	В	5 days
Zika RNA by PCR in Semen	ZIKS	Semen	5 days
Zika RT PCR – Window of detection from 1-14 days from onset of symptoms	ZIKU	RU	5-7 days
Zika RT PCR – Window of detection from 1-7 days from onset of symptoms	ZIKA	B	5-7 days

Tropical and travel related immunology

TROPICAL SCREEN (from 6 weeks post-travel)

Amoebic Antibodies Schistosomal Antibodies (Bilharzia)

Echinococcus Antibodies (Hydatid) Leishmania Antibodies Malarial Antibodies (IFA)

Toxoplasma Antibodies IgG Toxoplasma

Antibodies IgM

TAT 10 DAYS

TROP

POST-TRAVEL SCREEN 1 (Prior to 6 weeks)

Haematology Profile **Biochemistry Profile** Schistosome Abs Malarial Abs

10

POST-TRAVEL SCREEN 2 (Prior to 6 weeks)

Haematology Profile Biochemistry Profile Schistosome Abs Malarial Abs Hep A IaM Abs Hep B s Aq Hep C Abs HIV Duo

10

PTS2

PTS











B B 9,14

FBC

Factor II Prothrombin Gene Factor V Leiden Anticardiolipin Antibodies

DVT/PRE-TRAVEL SCREEN



DVT1





ENTERIC ORGANISM RAPID DETECTION

Detection of Bacterial, Viral and Parasitic Infection by Multiplex Real-Time PCR

Bacteria and Bacterial Toxins

C. difficile Toxin A/B gene, Campylobacter spp., Enteroaggregative E.coli (EAEC), Enteroinvasive E.coli (EIEC)/Shigella, Enterotoxigenic E.coli (ETEC), Enteropathogenic E.coli (EPEC), Plesiomonas shigelloides, Salmonella, Shiga-toxin producing E.coli (STEC) stx1/stx2, Shiga-toxin producing E.coli (STEC) 0157:H7, Vibrio cholerae, Vibrio parahaemolyticus, Vibrio vulnificus, Yersinia enterocolitica

Adenovirus 40/41, Astrovirus, Norovirus GI, Norovirus GII, Rotavirus A, Sapovirus (I, II, IV, V)

Parasites

Cyclospora cayetanensis, Cryptosporidium spp., Entamoeba histolytica, Gardia lamblia

This does NOT include stool for m/c/s - this needs to be requested as a separate test. Please provide two samples if this is required.

EORD

RF

Tropical and travel related immunology

Borrelia Antibodies (Lyme Disease) Borrelia burgdorferi

Presence of antibodies confirms infection with the Lyme Disease spiral bacterium (spirochaete) known as *Borrelia burgdorferi* by a bite from an infected tick. Patients bitten by an infected tick which is not removed within a day or so may develop Lyme disease. An expanding rash would usually appear at the site of the bite within 3 to 30 days in a large proportion of those infected. The rash spreads and often develops a 'bulls-eye' appearance. Many also develop flu-like symptoms with aching joints and muscles. The disease can later affect the nervous system, joints and other body systems.

Borrelia Antibodies IgM (BORM):

detectable after 2-3 weeks increasing up to 6 weeks.

Borrelia Antibodies IaG/IaM

(BORR): detectable after several weeks increasing to maximum at 4-6 months and may remain at high levels for many years.

Borrelia Confirmation (Immunoblot) (BORC):

The ELISA test is sensitive but has a well-documented high false positive rate giving positive results in cases of glandular fever, rheumatoid arthritis and other autoimmune conditions. If the ELISA is positive testing by Immunoblot confirms a diagnosis by Lyme disease. IgM and IgG antibodies are tested separately. It is essential that details of the IgG +IgM Elisa are provided for this test.

SPECIAL PATHOLOGY Borrelia ab's Immunoblot Borrelia antibodies- Immunoblot: B. Burfdorferri IgG/IgM [C6 EIA] POSITIVE Borrelia IgG Lineblot [virastripe] IgG to Borrelia P83 antigen Negative IgG to Borrelia P58 antigen IgG to Borrelia P43 antigen Negative IgG to Borrelia P39 antigen Negative IgG to Borrelia P39 antigen IgG to Borrelia P30 antigen IgG to Borrelia OspC antigen IgG to Borrelia p21 antigen IgG to Borrelia Osp17 antigen Negative Negative Negative to Borrelia DBPA antigen Negative IgG to Borrelia P14 antigen Negative IgG to Borrelia VIsE antigen Negative IgG to BORRELIA ANTIGENS INTERPRETATION Negative IgG to Borrelia IgM Lineblot [virastripe] IgM to P41 antigen Negative IgM to P41 antigen Negative IgM to P39 antigen Negative IgM to Borrelia OSpC antigen POSITIVE IgM to Borrelia OSpI7 antigen Negative IgM to Borrelia VISE antigen POSITIVE IgM to BORRELIA ANTIGENS INTERPRETATION POSITIVE Send Imm Result & Clin detail POSITIVE Report Comments: The C6 result is very weak but the results could be consistent with recent/current Lyme. Treat erythema migrans on clinical suspicion. If recent infection is suspected, consider sending follow up serology at 2 or more weeks after the original sample, although prompt antibiotic treatment may abrogate the antibody response. If chronic infection was suspected, no further action is needed. If still clinically concerned please contact us to discuss discuss

	IMMUNE STAT	US	
TEST	CODE	SAMPLE REQS	TAT
Hepatitis A Immunity (IgG/IgM)	HAIM	В	4 hours
Hepatitis B Immunity	HBIM	В	4 hours
Measles Antibodies (IgG) Immunity	MEAS	В	1 day
Measles Antibodies (IgM)	MEAM	B 9	2 days
Measles, Mumps, Rubella (MMR)	MMR	В	1 day
Mumps Antibodies (IgG)	MUMP	В	1 day
Mumps Antibodies (IgM)	MUMM	В	1 day
Pertussis (Whooping Cough) Antibodies	PERS	В	5 days
Pneumococcal Antibody Screen	PNEU	В	7 days
Polio Virus 1, 2, 3 Antibodies	P0L0	B 9	15 days
Rabies Antibody	RABI	В	10 days
Rubella Antibody (IgG)	RUBE	В	4 hours
Rubella Antibody (IgM)	RUBM	В	4 hours
Rubella PCR	RUBP	Amniotic Fluid	5 days
Tetanus Antibody	TETA	В	5 days
Varicella Zoster Antibodies (IgG)	VZ0S	В	1 day
Varicella Zoster Antibodies (IgM)	VZOM	В	1 day

Hepatitis B Immunity/Vaccination

	Anti HBs
less than 10 mIU/mI	Non-immune to Hepatitis B
10-50 mIU/mI	borderline – Booster indicated
50-100 mIU/mI	low level immunity – Booster suggested
100 and over	Immune to Hepatitis B

NEEDLE STICK INJURY PROFILE

Hep B sAg Hep C Abs HIV 1+2 Abs/p24 Antigen Serum saved for 2 years

(Donor - Not recipient)

TAT 4 HOURS

NSI



HEPATITIS VIRAL LOAD SAMPLE INSTRUCTIONS

Whole blood can be stored at 2°C to 30°C and must be centrifuged within 24 hours of specimen collection. Separate the plasma or serum from the pelleted red blood cells following the manufacturer's instructions for the tube used. Plasma or serum can be tested on the Panther system in the primary tube or transferred to a secondary Aptima Specimen Aliquot Tube (SAT) for testing on the Panther system. If not tested immediately, plasma and serum can be stored in accordance with the specifications below. If transferred to the SAT, plasma may be frozen at -20°C or -70°C, and serum may be frozen at -20°C. Do not freeze specimens in EDTA, ACD, or serum primary collection tubes.

After centrifugation: In the primary collection tube at 2°C to 8°C for up to 3 days

In the Aliquoted Tubes: at 2°C to 8°C for up to 5 days
In the Aliquoted Tubes: at -20°C or -70°C for up to 90 days

HEPATITIS TESTING				
TEST	CODE	SAMPLE REQS	TAT	
Hepatitis (Acute) Screen	AHSC	В	4 hours	
Hepatitis A (IgM)	HAVM	В	4 hours	
Hepatitis A Immunity (IgG/IgM)	HAIM	В	4 hours	
Hepatitis A Profile	HEPA	B	4 hours	
Hepatitis A RNA by PCR	HAVR	A or B	3 weeks	
Hepatitis A, B & C Profile	ABC	В	4 hours	
Hepatitis B (PCR) Genotype	BGEN	A	7 days	
Hepatitis B 'e' Antigen and Antibody	HEPE	В	4 hours	
Hepatitis B Core Antibody – IgM	HBCM	В	4 hours	
Hepatitis B Core Antibody – Total	HBC	В	4 hours	
Hepatitis B DNA (Viral load) – see page 89	DNAB	A	5 days	
Hepatitis B Immunity	HBIM	В	4 hours	
Hepatitis B Profile	HEPB	В	4 hours	
Hepatitis B Resistant Mutation	HBRM	A or B	7 days	
Hepatitis B Surface Antigen	AUAG	В	4 hours	
Hepatitis C Abs Confirmation (RIBA)	RIBA	В	5 days	
Hepatitis C Antibodies	HEPC	В	4 hours	
Hepatitis C Genotype	CGEN	A	5 days	
Hepatitis C Quantification (Viral Load) – see page 89	QPCR	A or B	5 days	
Hepatitis Delta Antibody	HEPD	В	5 days	
Hepatitis Delta Antigen	HDAG	В	5 days	
Hepatitis Delta RNA	DRNA	(Frozen plasma)	5 days	
Hepatitis E (PCR)	EHEP	A	2 weeks	
Hepatitis E IgG/IgM	HBE	B	5 days	
Hepatitis G (PCR)	HEPG	(Frozen plasma)	2 weeks	

nepatitus ti (PGR)		пери	(Frozen piasma)	2 weeks
HEPATITIS B profile		ITE VIRAL ITIS SCREEN	HEPATITI A, B & C PRO	
Hep B Surface Antigen Hep B Surface Antibodies Hep B Core IgG/IgM	Hepatitis A Ig Hepatitis B S Hepatitis C A	urface Antigen	Hepatitis A Profile Hepatitis B Profile Hepatitis C Abs LFT's	
TAT 4 HOURS		TAT 4 HOURS		TAT 4 HOURS
HEPE	3	AHSC		ABC
B	B		В	

All virology samples are processed as per manufacturers sample requirements and guidelines.

Hepatitis virus is named in order of their discovery A, B, C, D, E and G.

Hepatitis A

Hepatitis A is spread through food and water that have been contaminated with the virus derived from human faeces and urine. Hepatitis is an acute infection, not a chronic form of the disease.

HBV Assays

Hepatitis B surface antigen (HBsAg) (AUAG)

A protein on the surface of HBV; it can be detected in high levels in serum during acute or chronic HBV infection. The presence of HBsAg indicates that the person is infectious. The body normally produces antibodies to HBsAg as part of the normal immune response to infection. HBsAg is the antigen used to make Hepatitis B vaccine.

Hepatitis B surface antibody (anti-HBs) (HBIM)

The presence of anti-HBs is generally interpreted as indicating recovery and immunity from HBV infection. Anti-HBs also develops in a person who has been successfully vaccinated against Hepatitis B.

Total Hepatitis B core antibody (anti-HBc) (HBC)

Appears at the onset of symptoms in acute Hepatitis B and persists for life. The presence of anti-HBc indicates previous or ongoing infection with HBV in an undefined time frame.

IgM antibody to Hepatitis B core antigen (IgM anti-HBc) (HBCM)

Positivity indicates recent infection with HBV (\leq 6 months). Its presence indicates acute infection.

Hepatitis B e antigen and antibody (HEPE)

Hepatitis B e antigen (HbeAg): A secreted product of the nucleocapsid gene of HBV that is found in serum during acute and chronic Hepatitis B. Its presence indicates that the virus is replicating and the infected person has high levels of HBV.

Hepatitis B e antibody (HBeAb or anti-HBe): Produced by the immune system temporarily during acute HBV infection or consistently during or after a burst in viral replication. Spontaneous conversion from e antigen to e antibody (a change known as seroconversion) is a predictor of long-term clearance of HBV in patients undergoing antiviral therapy and indicates lower levels of HBV.

HBV Viral Load (DNAB)

This assay measures the concentration of Hepatitis B viral DNA in patient serum. The test enables the viral load at the beginning of treatment to be established and, thereafter, monitored to indicate treatment success.

HBV Genotyping (BGEN)

Identifies the hepatitis B genotype (A to H) in a patient's serum/plasma. This is critical for determining treatment and monitoring response.

HBV Drug Resistance Detection (HBRM)

Detects hepatitis B virus wild-type and drug-induced mutations, associated with lamivudine, entecavir and tenofovir.

HCV Assays

HCV Antibody (HEPC)

The test indicates exposure to virus but does not necessarily signify current infection. The HCV antibody test may therefore be used to screen patients for possible HCV infection to detect the presence of antibodies to the virus, indicating exposure to HCV. This test cannot tell if the viral infection is active, only that you were exposed to the virus in the past.

HCV Viral Load (QPCR)

Measures the concentration of hepatitis C viral RNA in patient serum. This state-of-the-art assay enables the viral load at the beginning of treatment to be established and, thereafter, monitored to indicate treatment success.

HCV Genotype for Treatment (CGEN)

Determines the HCV genotype in a patient's serum. The result is presented as being of either Genotype [1, 5, 6], [4] or [2, 3]. This grouping reflects required treatment duration of the different genotypes.

HCV Drug Resistance

Detects hepatitis C wild-type or drug-induced mutations associated with resistance to HCV drugs including NS5A inhibitors, NS5B inhibitors or NS3 inhibitors.

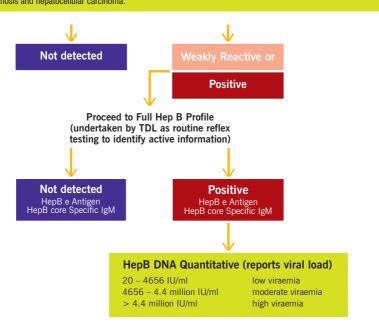
Hepatitis B Surface Antigen

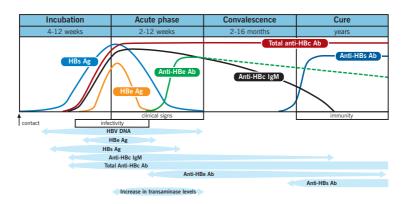
HEPATITIS B

- · Transmission:
 - Sexual, parenteral, perinatal, direct contact between individuals.
- Clinical Signs: Asymptomatic in 90% of cases.
- Cure: 95% of cases (adults).
- Complications:
 Cirrhosis and hepatocellular carcinoma.

- Development of chronic form: Yes (5% of adult cases).
- Prevention:
- Vaccination ++++; specific IgG.
- Main Marker:

HBS Ag, anti HBc IgM, total anti HBc Ab, Anti-HBs Ab, HBe Ag, Anti-HBe Ab, HBV DNA.





Hepatitis C Antibodies

HEPATITIS C · Transmission: Complications: Prevention: Parenteral, nosocomial, sexual. Cirrhosis and hepatocellular Hygiene, no vaccination. carcinoma. • Clinical Signs: Main Marker: Asymptomatic in 90% of cases. • Development of chronic form: Anti HCV Ab, HCV RNA. Yes (80% of adult cases). • Cure: 95% of cases (adults). Not detected **Positive** The prognostic value of HCV genotyping Chronic hepatitis: cirrhosis may, ultimately develop in **HCV RNA Quantitative (reports viral load)** up to 20% of HCV cases. < 4.000 IU/ml considered low levels Genotype 1b is more 4,000 - 40,000 IU/ml considered moderate levels frequent (~70%) Genotype 1a, 2a and 2b > 40,000 IU/ml considered high levels are less frequent (~10%) Patient / treatment management Confirmation by HCV Viral Load (Quantitative) Not detected **Positive** (Proceed to Hep C RNA (No further investigation) Viral Load) Incubation Acute phase Cure 4-7 weeks 4-12 weeks HCV RNA ▲ contact HCV RNA HCV Ag Anti-HCV Ab

Increase in transaminase levels

HIV TESTING				
TEST	CODE	SAMPLE REQS	TAT	
HIV Screening: HIV1& 2 Abs/p24 Ag (4th Gen)	HDU0	В	4 hours	
HIV Screening: HIV1& 2 Abs, p24 (5th Gen)	HIV5	В	4 hours	
HIV Confirmation of Positive Screens (Using 3 methodologies)	HIVC	B	1 day	
HIV Rapid RNA HIV-1 QUALITATIVE	LHIV	(Vacutainer only)	4 hours	
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	(Vacutainer only)	4 hours	
HIV/HBV/HCV Screen (HIV post exposure at 10 days)	STDX	(Vacutainer only)	3 days	
HTLV 1& 2 Abs. (Human T Lymphotropic Virus Type I-II)	HTLV	B	8 hours	
HTLV by PCR	HTLP	(A) Whole blood	21 days	
HIV 1 Proviral DNA	HIVP	A Whole blood	7 days	

(please refer to page 146 for information about self-collection tests)					
TEST	CODE	SAMPLE REQS	TAT		
4th Generation HIV1& 2 Abs/p24 Ag (45 days post-contact)*	THIV	₿Tiny™	4 hours		
5th Generation HIV1& 2 Abs/p24 Ag (45 days post-contact)*	THV5	B Tiny™	4 hours		

^{*}Reactive 4th & 5th Gen HIV Results require confirmation with a follow up venous blood sample.

HIV POSITIVE PATIENT MONITORING					
TEST	CODE	SAMPLE REQS	TAT		
HIV-1 RNA Viral Load by PCR	HIV1	A (2x6ml whole blood)	3 days		
HIV-2 RNA by PCR	HIV2	A	21 days		
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	(Vacutainer only)	4 hours		
HIV Therapeutic Drug Monitoring	TDM	J	21 days		
CD3/CD4/CD8	LYSS	A 10	1 day		

HIV-1 GENOTYPIC RESISTANCE TESTING					
TEST	CODE	SAMPLE REQS	TAT		
HIV-1 Genotypic Resistance (RT & Protease)	HIVD	(2x6ml whole blood)	21 days		
HIV-1 Genotypic Resistance (Integrase)	INTE	A (2x6ml whole blood)	21 days		
HIV-1 Tropism	TRPM	A (2x6ml whole blood)	28 days		
HLA B*57:01	HL57	A 9	10 days		

HLA-B*57:01 should be tested before starting patients on an Abacavir (ABC) containing regimen to reduce the risk of hypersensitivity reaction. HLA-B*57:01-positive patients should not be prescribed ABC and a positive status should be recorded as an ABC allergy in the patient's medical record.



Adenovirus by PCR Arbovirus Antibodies/Abs ARBO		TEST	CODE	SAMPLE REQS	TAT
Atypical Pneumonia Screen Bancroftia/Oncerciasis/Filarial Antibodies BK Polyoma Virus by PCR BKPV BKPV A/G/3/RU 5 days Cat Scratch Fever (Bartonella IgG+IgM) CAT CAT CAT CAT CAT CAT CAT CAT		Adenovirus by PCR	ADV	A/PCR/VS/SC	7 days
Bancroftia/Oncerciasis/Filarial Antibodies TFIF		Arbovirus Antibodies/Abs	ARB0	B 9,14	3 weeks
BK Polyoma Virus by PCR Cat Scratch Fever (Bartonella IgG+IgM) Cat Scratch Fever (Bartonella IgG+IgM) Cat Scratch Fever (Bartonella IgG+IgM) Chikungunya Virus Abs Chikungunya Virus Abs Chikungunya Virus Abs CMV DNA (by PCR) CMVP CMV DNA (by PCR) CMVP CMV DNA (by PCR) CMVD DNA by PCR (Semen) CMV DNA by PCR (Urine) CMV Resistance CMV Resistance CMVI CMV RU COVID-19 (SARS-CoV-2) Abbott IgG Antibody COVID-19 (SARS-CoV-2) Abbott IgG Antibody COVID-19 (SARS-CoV-2) RNA by PCR NEW COVID-19 (SARS-CoV-2) RNA by PCR NCOV Anti-SARS-CoV-2 RNA by PCR NCOV Coxsackie Antibodies (IgM) Coxsackie Antibodies (IgM) Coxma CSF Screen by PCR Cytomegalovirus (IgG/IgM) Antibodies Cytomegalovirus (IgG/IgM) Antibodies Cytomegalovirus (IgG/IgM) Antibodies Cytomegalovirus (PCR) Urine Cytomegalovirus (PCR) Urine Cytomegalovirus (PCR) Urine Cytomegalovirus (PCR) Urine Cytomegalovirus (PCR) Cytomega		Atypical Pneumonia Screen	APS	B	2 days
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CD3/CD4/CDB		BK Polyoma Virus by PCR	BKPV	(A)/(B)/RU	5 days
Chikungunya Virus Abs CMV DNA (by PCR) CMV DNA (by PCR) CMV DNA by PCR (Semen) CMV DNA by PCR (Urine) CMV Resistance CMV Resistance COVID-19 (SARS-CoV-2) Abbott IgG Antibody NEW COVID-19 (SARS-CoV-2) RNA by PCR COVID-19 (SARS-CoV-2) RNA by PCR NCOV COVID-19 (SARS-CoV-2) RNA by PCR COVID-19 (SARS-CoV-2) RNA by PCR NCOV COXSackie Antibodies (IgM) COXM		Cat Scratch Fever (Bartonella IgG+IgM)	CAT	В	5 days
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CMV DNA by PCR (Urine) CMV Resistance CMVR A A (2 x 6mls) 21 days CMV Resistance CMVR COVID-19 (SARS-CoV-2) Abbott IgG Antibody COVID-19 (SARS-CoV-2) RNA by PCR NCOV COVID-19 (SARS-CoV-2) RNA by PCR NCOV COVID-19 (SARS-CoV-2) RNA by PCR NCOV COVID-19 (SARS-CoV-2) RNA by PCR COVID-19 (SARS-CoV-2) RNA by PCR COVID-19 (SARS-CoV-2) RNA by PCR NEW COVID-19 (SARS-CoV-2) RNA by PCR COVID-19 (SARS-CoV-2) RNA by PCR TCOV SST/Serum 3 ** (Venous and Capillary) Coxsackie Antibodies (IgM) COXM CSF Screen by PCR Cytome by PCR Cytomegalovirus (CMV-DNA) Amnio CMVD AF 5 days Cytomegalovirus (IgG/IgM) Antibodies Cytomegalovirus (IgG/IgM) Antibodies Cytomegalovirus Avidity Cytomegalovirus Avidity Cytomegalovirus DNA (PCR) Cytomegalovirus DNA (PCR) Cytomegalovirus IgM CMVV C		CMV DNA (by PCR)	CMVP	A	5 days
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NEW COVID-19 (SARS-CoV-2) Roche Elecsys Anti-SARS-CoV-2 Total Antibody Coxsackie Antibodies (IgM) COXM CO	NEW	COVID-19 (SARS-CoV-2) Abbott IgG Antibody	GCOV		24 hours
Anti-SARS-CoV-2 Total Antibody Coxsackie Antibodies (IgM) Cytomegalovirus (CMV-DNA) Amnio CMVD AF 5 days Cytomegalovirus (IgG/IgM) Antibodies CMV Cytomegalovirus (PCR) Urine CMVU RU 5 days Cytomegalovirus Avidity CMAV Cytomegalovirus DNA (PCR) Cytomegalovirus IgM CMVP Cytomegalovirus IgM CMVM CMVP Cytomegalovirus IgM CMVM	NEW	COVID-19 (SARS-CoV-2) RNA by PCR	NCOV		48 hours
CSF Screen by PCR Cytomegalovirus (CMV-DNA) Amnio CMVD AF 5 days Cytomegalovirus (IgG/IgM) Antibodies CMV BU 5 days Cytomegalovirus (PCR) Urine CMVU RU 5 days Cytomegalovirus Avidity CMAV Cytomegalovirus Avidity Cytomegalovirus DNA (PCR) Cytomegalovirus DNA (PCR) Cytomegalovirus IgM CMVM CMVM CMVM CMVM CMVM CMVM CMVM CM	NEW	,	TCOV		24 hours
Cytomegalovirus (CMV-DNA) Amnio Cytomegalovirus (IgG/IgM) Antibodies Cytomegalovirus (IgG/IgM) Antibodies Cytomegalovirus (PCR) Urine CMVU RU 5 days Cytomegalovirus Avidity CMAV CMVP		Coxsackie Antibodies (IgM)	COXM	В	10 days
Cytomegalovirus (IgG/IgM) Antibodies Cytomegalovirus (PCR) Urine CMVU RU 5 days Cytomegalovirus Avidity CMAV CMAV		CSF Screen by PCR	VPCR	CSF	2 days
Cytomegalovirus (PCR) Urine CMAV Cytomegalovirus Avidity Cytomegalovirus DNA (PCR) CMVP CMVVP CMVP CMVVP CMVP CMVVP		Cytomegalovirus (CMV-DNA) Amnio	CMVD	AF	5 days
Cytomegalovirus Avidity Cytomegalovirus DNA (PCR) Cytomegalovirus IgM CMVM CMVM CMVM CMVM CMVM CMVM CMVM CM		Cytomegalovirus (IgG/IgM) Antibodies	CMV	В	4 hours
Cytomegalovirus DNA (PCR) Cytomegalovirus IgM CMVM CMMV		Cytomegalovirus (PCR) Urine	CMVU	RU	5 days
Cytomegalovirus IgM Dengue Fever PCR DPCR Or 3 9.14 2 weeks Epstein-Barr Virus Antibodies IgG/IgM EBVA EBVQ A 5 days Hantavirus Serology HANV BY Herpes Simplex I/II Antibody Profile (IgG) HERP A 2 days Herpes Simplex I/II by PCR (Swab) HERS HERD FCRU/TPV 5 days Herpes Simplex I/II IgM HERD FCRU/TPV 5 days Herpes Simplex I/II IgM HERD FCRU/TPV 5 days Herpes Simplex I/II IgM HERM A 2 days HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) HUMAN A 10mls or 2 x 4mls (Vacutainer only) Human Herpes Virus – 6 by PCR HHV6 HHV6 A 5 days Human Herpes Virus – 8 (IgG) HHV8 B 10 days Human Herpes Virus – 8 by PCR HV8D A 5 days Human Parvovirus B19 – DNA PCRP A 2 weeks JC Polyoma Virus by PCR JCPV A / 3 / CSF 5 days		Cytomegalovirus Avidity	CMAV	В	10 days
Dengue Fever PCR Epstein-Barr Virus Antibodies IgG/IgM EBVA Epstein-Barr Virus PCR EBVQ A 5 days Hantavirus Serology HANV B HERP C C C C C C C C C C C C C		Cytomegalovirus DNA (PCR)	CMVP	A	5 days
Epstein-Barr Virus Antibodies IgG/IgM EBVA Epstein-Barr Virus PCR EBVQ A 5 days Hantavirus Serology HANV B 9 10 days Herpes Simplex I/II Antibody Profile (IgG) HERP B 2 days Herpes Simplex I/II by PCR (Swab) HERS HERD FCRU/TPV 5 days Herpes Simplex I/II IgM HERD FCRU/TPV 5 days HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) HIV/HBV/HCV Screen by PCR HHV6 A 5 days HIV/HBV/HCV Screen by PCR HHV6 A 5 days Human Herpes Virus – 6 by PCR HHV8 B 10 days HHV8 10 days Human Herpes Virus – 8 (IgG) HHV8 HUNB A 5 days Human Herpes Virus – 8 by PCR HV8D A 5 days Human Parvovirus B19 – DNA PCRP A 10 CSF 5 days		Cytomegalovirus IgM	CMVM	В	4 hours
Epstein-Barr Virus PCR Hantavirus Serology Herpes Simplex I/II Antibody Profile (IgG) HERP Gold Agys Herpes Simplex I/II by PCR (Swab) HERS Herpes Simplex I/II by PCR (Urine) HERD HERD FCRU/TPV 5 days Herpes Simplex I/II IgM HERM Gold Agys HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) Human Herpes Virus – 6 by PCR Human Herpes Virus – 8 (IgG) HHV8 HHV8 HUMBD Agys Human Herpes Virus – 8 by PCR HHV8 HUMBD Agys Human Herpes Virus – 8 by PCR HV8D Agys Human Parvovirus B19 – DNA PCRP Agys JCPV Agys JCPV Agys JCSF 5 days		Dengue Fever PCR	DPCR	A or B 9,14	2 weeks
Hantavirus Serology Herpes Simplex I/II Antibody Profile (IgG) Herpes Simplex I/II Antibody Profile (IgG) Herpes Simplex I/II by PCR (Swab) Herpes Simplex I/II by PCR (Urine) Herpes Simplex I/II IgM HERD FCRU/TPV 5 days Herpes Simplex I/II IgM HERM 1 2 days HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) Human Herpes Virus – 6 by PCR Human Herpes Virus – 8 (IgG) HHV8 1 10 days Human Herpes Virus – 8 by PCR HV8D A 5 days Human Herpes Virus – 8 by PCR HV8D A 5 days Human Parvovirus B19 – DNA PCRP A 2 weeks JC Polyoma Virus by PCR JCPV A / 3 / CSF 5 days		Epstein-Barr Virus Antibodies IgG/IgM	EBVA	В	2 days
Herpes Simplex I/II Antibody Profile (IgG) HERP 1 2 days Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days Herpes Simplex I/II by PCR (Urine) HERD FCRU/TPV 5 days Herpes Simplex I/II IgM HERM 1 2 days HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) Human Herpes Virus – 6 by PCR HHV6 A 5 days Human Herpes Virus – 8 (IgG) HHV8 I 10 days Human Herpes Virus – 8 by PCR HV8D A 5 days Human Parvovirus B19 – DNA PCR A 10mls or 2 x 4mls (Vacutainer only) 10 days 10 days 10 days Human Herpes Virus – 8 by PCR HV8D A 5 days Human Parvovirus B19 – DNA PCRP A 2 weeks JC Polyoma Virus by PCR JCPV A / 3 / CSF 5 days		Epstein-Barr Virus PCR	EBVQ	A	5 days
Herpes Simplex I/II by PCR (Swab) Herpes Simplex I/II by PCR (Urine) Herpes Simplex I/II by PCR (Urine) Herpes Simplex I/II IgM HERD FCRU/TPV 5 days Herpes Simplex I/II IgM HERM 3 2 days HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) Human Herpes Virus – 6 by PCR HHV6 Man Herpes Virus – 8 (IgG) HHV8 Man Herpes Virus – 8 by PCR HV8D Man Herpes Virus – 8 by PCR HUWAD Man Herpes Virus – 8 by PCR HV8D Man Herpes Virus – 8 by PCR HUWAD Man Herpes Virus – 8 by PCR HV8D Mays Muman Parvovirus B19 – DNA PCRP Mays Mays Muman Virus by PCR JCPV Mays Mays Mays Mays Mays Mays Mays Mays		Hantavirus Serology	HANV	B 9	10 days
Herpes Simplex I/II by PCR (Urine) HERD FCRU/TPV 5 days Herpes Simplex I/II IgM HERM 10 10mls or 2 x 4mls (Vacutainer only) Human Herpes Virus – 6 by PCR HHV6 HHV8 Human Herpes Virus – 8 by PCR HHV8 Human Herpes Virus – 8 by PCR HU8D A 5 days Human Herpes Virus – 8 by PCR HV8D A 5 days Human Parvovirus B19 – DNA PCRP A 2 weeks JC Polyoma Virus by PCR JCPV A/3/CSF 5 days		Herpes Simplex I/II Antibody Profile (IgG)	HERP	В	2 days
Herpes Simplex I/II IgM HERM 10 days post exposure) HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) STDX 10 lomis or 2 x 4mls (Vacutainer only) 10 days Human Herpes Virus – 6 by PCR HHV6 10 days Human Herpes Virus – 8 (IgG) HHV8 10 days Human Herpes Virus – 8 by PCR HV8D 10 days Human Parvovirus B19 – DNA PCRP 2 weeks JC Polyoma Virus by PCR JCPV 10 logs 5 days		Herpes Simplex I/II by PCR (Swab)	HERS	PCR	5 days
HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure) Human Herpes Virus – 6 by PCR Human Herpes Virus – 8 (IgG) HHV8 GOOD 10 days Human Herpes Virus – 8 by PCR HHV8 HUMAN		Herpes Simplex I/II by PCR (Urine)	HERD	FCRU/TPV	5 days
Comparison of the comparison		Herpes Simplex I/II IgM	HERM	B	2 days
Human Herpes Virus − 8 (IgG)HHV8Image: Control of the control			STDX		3 days
Human Herpes Virus – 8 by PCRHV8DA5 daysHuman Parvovirus B19 – DNAPCRPA2 weeksJC Polyoma Virus by PCRJCPVA/3/CSF5 days		Human Herpes Virus – 6 by PCR	HHV6	A	5 days
Human Parvovirus B19 – DNAPCRPA2 weeksJC Polyoma Virus by PCRJCPVA/3/CSF5 days		Human Herpes Virus – 8 (IgG)	HHV8	В	10 days
JC Polyoma Virus by PCR JCPV (1) / (3) / (5) / CSF 5 days		Human Herpes Virus – 8 by PCR	HV8D	A	5 days
		Human Parvovirus B19 – DNA	PCRP	A	2 weeks
Measles Antibodies (IgG) Immunity MEAS (3) 1 day		JC Polyoma Virus by PCR	JCPV	A/B/CSF	5 days
		Measles Antibodies (IgG) Immunity	MEAS	В	1 day

^{*} Contact the laboratory for patient self-collection sample kits.

 $^{^{\}star\star}$ CE marked IVD capillary kits must be used for self-collection samples and can be ordered through TDL Supplies.

	TEST	CODE	SAMPLE REQS	TAT
	Measles Antibodies (IgM)	MEAM	B 9	2 days
	Measles PCR	MEAP	Buccal swab	48 hours
	MERS Coronavirus Test	MERS	J	1 day
	Mumps Antibodies (IgM)	MUMM	В	1 day
	Mycoplasma pneumoniae IgM and IgG	MYCO	В	2 days
	Mycoplasma species – DNA	MPCR	A	5 days
	Needle Stick Injury Profile	NSI	BB	4 hours
	Neurological Viral Screen	NVIR	BB	2 days
	Parvovirus Antibodies (IgM)	PARV	В	2 days
	Parvovirus DNA by PCR	PCRP	A	2 weeks
	Parvovirus IgG Antibodies	PARG	B	2 days
	Parvovirus IgG/IgM Abs	PARP	В	2 days
	Pneumonia (Atypical) Screen	APS	B	2 days
NEW	Respiratory Viral RNA Screen by PCR	FLU4	PCR nasopharyngeal	48 hours
	Rotavirus in Stool by PCR	ROTA	RF	1 day
	Rubella Antibody (IgG)	RUBE	B	4 hours
	Rubella Antibody (IgM)	RUBM	B	4 hours
	Rubella Avidity	RUAV	B	1 week
NEW	SARS-CoV-2 (COVID-19) Abbott IgG Antibody	GCOV	SST/Serum (3 * (Venous)	24 hours
NEW	SARS-CoV-2 (COVID-19) RNA by PCR	NCOV	PCR Swab (nasal/ pharyngeal)	48 hours
NEW	SARS-Cov-2 (COVID-19) Roche Elecsys Anti-SARS-CoV-2 Total Antibody	TCOV	SST/Serum (3 ** (Venous and Capillary)	24 hours
	Torch Screen	TORC	B	2 days
	Varicella Zoster – DNA	VZPC	A	5 days
	Varicella Zoster Antibodies (IgG)	VZ0S	В	1 day
	Varicella Zoster Antibodies (IgM)	VZOM	В	1 day
	Viral Antibody Screen	VIRA	BB	2 days
	Viral Eye by PCR	VPE	PCR	3 days
	Viral Respiratory RNA Screen by PCR	VPR	PCR or as specified on the form	2 days
	Viral Skin/Mucosa by PCR	VPSK	PCR	2 days
	West Nile Virus Abs	WNV	В	2 weeks
	Zika Abs IgM and IgG - Antibody detection from 15 days	ZKAB	В	5 days
	Zika RNA by PCR in Semen	ZIKS	Semen	5 days

VIROLOGY BY BLOOD VIRAL ANTIBODY SCREEN NEUROLOGICAL VIRAL SCREEN TORCH SCREEN Toxoplasma Antibodies Measles IaG Measles IaG Measles IqM Measles IgM (IgG, IgM) Rubella Antibody (IgG, IgM) Mumps IgG Mumps IgG CMV Antibody (IgG, IgM) Mumps IgM Mumps IqM TAT Mycoplasma pneumonia CMV IaG Herpes Antibody 2 DAYS (HSV1/HSV2 IgG) CMV HSV1 + 2 IgGHSV₁ HSV 1 + 2 IgMHSV₂ VZV IqG TORC B ATYPICAL PNEUMONIA SCREEN Mycoplasma pneumonia Abs Chlamydia pneumoniae (MIF) Legionella TAT 2 DAYS 2 DAYS pneumophila (IF) **VIRA NVIR APS** BB BB B

VIROLOGY BY PCR RESPIRATORY VIRAL VIRAL SKIN/MUCOSA BY PCR **VIRAL EYE BY PCR RNA SCREEN BY PCR** If chicken pox or shingles Herpes Simplex virus Flu A suspected, please indicate Varicella Zoster virus TAT 3 DAYS Flu B clearly on request form Adenovirus Respiratory Syncytal Virus (RSV) Herpes Simplex virus COVID-19 Varicella Zoster virus **VPE** PCR **CSF SCREEN BY PCR** NEW 2021 Herpes Simplex virus Varicella Zoster virus TAT TAT 2 DAYS 2 DAYS Enterovirus 48 HOURS **VPSK VPCR** FLU4 PCR CSF PCR nasopharyngeal

Tumour markers/sites

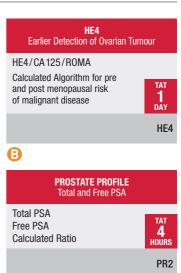
TEST	CODE	SAMPLE REQS	TAT
Alpha Feto Protein	AFP	B	4 hours
Beta HCG (Oncology)	HCGQ	B	4 hours
Breast Cancer NGS Panel – full sequencing across 14 genes + deletions/duplications	GENE	A A 9,11	4 weeks
CA 15-3	C153	В	4 hours
CA 19-9	C199	B	4 hours
CA 50	CA50	В	5 days
CA 72-4	C724	В	5 days
CA 125	C125	B	4 hours
Carcino Embryonic Antigen	CEA	В	4 hours
Complex PSA (Prostate Specific Ag)	CPSA	B	3 days
Cyfra 21-1	CY21	B	4 days
Early CDT-Lung	CDTL	В	7 days
HE4 + ROMA (Earlier Detection of Ovarian Tumour)	HE4	B	1 day
Neurone Specific Enolase	NSE	B	5 days
NMP22 (Bladder tumour)	NMP	J ¹	4 days
Osteocalcin	0ST	(Frozen) 4	4 days
Prostate Profile (Total & Free PSA)	PR2	В	4 hours
Prostate Specific Antigen (Total)*	PSPA	B	4 hours
Pyruvate Kinase (M2-PK)	M2ST	RF ⁴	5 days
Pyruvate Kinase (M2-PK)	M2PK	A	5 days
S100 Malignant Melanoma	S100	В	4 days
Squamous Cell Carcinoma	SCC	В	4 days
Testicular Tumour Profile	TTP	В	4 hours

^{*} Results that fall between 4.00 ug/L and 10.00 ug/L will automatically reflex to a Free PSA with a calculated ratio. The ratio of Free to Total PSA may help discriminate between prostate cancer and benign prostatic hyperplasia.

TUMOUR MARKERS/SITES

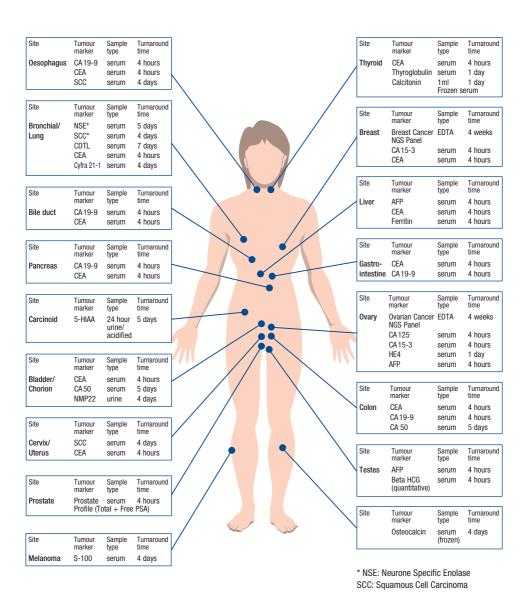
AFP: Liver, Testes Cyfra 21-1: Oesophagus, Lung, Bladder BHCG: Testes HE4: Ovary BRCA1/2: Breast NMP22: Bladder CA 125: Ovary NSE: Lung, Brain, Thyroid CA 15-3: Breast PSA: Prostate CA 19-9: Stomach, Colorectal, Gastrointestinal, Pancreas S100: Melanoma CA 50: Bladder, Colon SCC: Oesophagus, Bronchus, Lung, Cervix CDTL: Luna CEA: Stomach, Liver, Breast,

Ovary, Gastrointestinal, Lung



B

Tumour markers/sites



Ensure all specimens and forms are labelled with given Forename, Surname, DOB, Date and Time of collection. Turnaround times are quoted as working days.

TDL Genetics is a consultant-led service which is able to provide extensive expertise in the testing, diagnosis and genetic counselling of inherited disorders. Genetic tests are performed on DNA



for molecular genetic analysis and on whole chromosomes for cytogenetic analysis. Some tests are part of profiles that can be linked with assays from other TDL disciplines, such as biochemistry and haematology, to give more comprehensive results for the patient.

Genetic tests are available for:

- Prenatal diagnosis and rapid trisomy screening by Amnio-PCR
- · Carrier screening
- Newborn chromosome analysis
- Confirmation of symptomatic individuals and pre-symptomatic testing
- Genetic variation that influences risk of disease
- Identity studies (paternity, zygosity, tissue typing)
- · Fertility studies
- · Products of conception
- Cancer

Genetic testing is sometimes complex and tests will vary in their ability to detect mutations or to detect all patients who have, or will develop, the disease. Some tests are diagnostic for a condition, others are indicative or are associated with an altered risk for a condition. Results can affect the lives of individuals and have implications for their family, for insurance and employment. Where testing will predict the inheritance of a disease in a healthy person, counselling and consent are mandatory. For these tests, please complete the Genetic Request form at the back of the guide (including informed consent). Our service provides result interpretation and risk assessment to patients and their family members. Genetic counselling can be arranged by TDL's Consultant Clinical Geneticist.

To meet the increasing range and complexity of genetic testing we have developed an excellent collaboration with other specialist laboratories.

normal fetus

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Down Syndrome fetus

DNA peaks from

21-32s

45586

21-32s

Tests marked GENE are sent to these laboratories within our network and have a fixed price. GENE panel composition may change throughout the year to reflect new and improved developments. Turnaround times may be longer if follow-up studies are required.

Specimen Receipt at The Doctors Laboratory is 24 hours a day. Specifically, TDL Genetics results service is available Monday to Friday 8.30 am - 5.30 pm with the laboratory also open for processing of samples on Saturdays from 9.00 am - 1.00 pm.

Test codes, sample requirement codes, and turnaround times may be found on the following pages.

All samples must be collected in the specified containers, as shown in the key at the back of this guide.

Samples should be fresh and in good condition (e.g. not clotted if EDTA or heparinised whole blood is required) otherwise testing may be adversely affected and another sample may be required. Small DNA samples are stored routinely for one year, larger DNA samples can be stored by special arrangement.

Instructions for transportation, sample labelling, and the completion of request forms can be found on the reverse of the TDL Genetics Request Form.

The locations of the Laboratory and Patient Reception are indicated on the map on the reverse of each request form. If you do not find the test you require in this directory or need more information and advice please telephone the laboratory on 020 7307 7409.

Sending samples to the laboratory

Transport arrangements

All specimens should be kept at room temperature and despatched to the laboratory as soon as possible, by TDL/international courier, first class post, guaranteed next day delivery or a reliable alternative.

If a delay in sending the sample is unavoidable, please refrigerate overnight - DO NOT FREEZE. Specimens must not be allowed to come in contact with request forms, but should be kept separate by using dual - pocketed plastic bags. Specimens for inland postage must be packed in a rigid crush-proof container according to current Post Office guidelines. IATA guidelines should be followed for international transport (Advice is available from the laboratory).

Labelling of high risk samples

Please note that it is the responsibility of the referring clinician to ensure that high-risk samples are clearly identified to reduce the risk of infection to staff and others

Patient details on request forms and samples

Request and consent forms are available directly from TDL Genetics.

In order to avoid unnecessary time spent in obtaining details please provide the following information:

Information for request forms:

- · Surname, forename (not initials), date of birth and biological sex of patient for postnatal referrals
- · Full name (not initials) and location of referring clinician
- · Full address of clinician to whom the result should be sent
- Legible clinical summary, including details of any relevant family history
- · Address for billing Doctor, patient or other
- · Gestation on prenatal samples
- · Hospital or reference number
- · Test required

Essential information on sample container label:

- Patients surname and forename (not initials)
- · Date of birth
- · Hospital number or reference number

Consent forms

Consent forms (at the back of this guide) are available for genetic testing. As genetic testing may have implications for other family members and is regarded as personal data, it is recommended that written consent is obtained wherever possible. In cases with predictive testing for severe disorders, as indicated in the laboratory guide, it is essential that patients should also be offered formal genetic counselling. It is the responsibility of the referring clinician to obtain appropriate consent from the patient.

Unlabelled samples

Unlabelled samples will ONLY be processed if the individual who took the sample can confirm the sample is from the patient in question. In the absence of this assurance, the sample will be discarded and a repeat required.

Genetic Testing

THE IMPORTANCE OF CLINICAL DETAILS

Clinical details are very important when providing genetic analysis. The more clinical information that is available (e.g. details of ultrasound information, phenotypic features or family history) the better the service we can provide. Failure to provide this information for cytogenetic studies may result in an inaccurate analysis.

MOLECULAR GENETICS

Clinical details can be extremely important for clinical interpretation of a molecular genetic test.

For example, the clinical comments accompanying a cystic fibrosis screening report will vary depending on whether the patient is a potential gamete donor or a person exhibiting a cystic fibrosis phenotype.

It may also be crucial, where a mutation has already been shown to be segregating in a family, to be provided with information concerning the mutation and a family pedigree to ensure the correct analysis is performed and reliable risk figures calculated.

CYTOGENETICS

Cytogenetic analysis is performed according to the Professional Guidelines for the Association of Clinical Genetic Science and the recommendations provided are dependent on the clinical indications given for each case.

Clinical details inform the investigation at all stages:

- Prior to analysis, clinical details may indicate, for example, that procedures such as chromosome breakage or leukaemic studies are required, which must be referred to the oncogenomic department or specialist centre.
- During analysis they may indicate that extra cells should be screened to investigate the possibility of
 mosaicism, for example in a diagnosis of suspected Turner syndrome, or that particular chromosomes must
 be targeted for high-resolution study, for example chromosome 4 in suspected Wolf-Hirschhorn syndrome.
- When the analysis has been completed they may help to provide an accurate interpretation of the findings
 and in some instances prompt further investigations, for example FISH or molecular genetic studies.

When clinical details are not available a routine analysis will be performed and a conditional report issued.

SAMPLE STABILITY

Molecular Genetic Samples

Whole blood collected in EDTA should be sent to the laboratory between 4°C-28°C within 48 hours. Long term storage should be at 2-8°C.

Extracted DNA samples should be sent to the laboratory between 4°C-28°C.

Cytogenetic Samples

Cytogenetic studies require living cells, please ensure that samples reach the laboratory as soon as possible. If a delay before dispatch is unavoidable, samples may be stored in a refrigerator (4°C) but they must **not** be frozen.

Samples sent more than 48 hours after sampling, or kept at temperatures below 4°C and greater than 38°C may have inhibited growth.

Information concerning packaging, transportation, and labelling of samples is provided on the reverse of our TDL Genetics Request Form.

Requesting additional tests

Any further tests not requested at the time of sample receipt must be requested within:

- 1 week for tests requiring prenatal culture or cultured cells
- 2 weeks for DNA testing
- 2 weeks for cell culture testing
- . 3 months for FISH testing

Samples can be stored for longer periods if specifically requested at the time of sample receipt.

POSTNATAL DIAGNOSIS (BLOOD CULTURE)

Reasons for analysis: Chromosome studies are requested where problems that may have a cytogenetic basis are suspected, e.g. babies with birth defects; children with developmental delay and physical handicaps, or adults with fertility problems. Additionally, prospective gamete donors are screened to detect carriers of balanced chromosome rearrangements.

Sample requirements: Lithium heparin whole blood specimens are required – gently mixed to prevent clotting and must **not** be frozen, See sample stability section for cytogenetic samples. Sample volumes may be reduced for children (2-4ml) and neonates (1-2ml).

Turnaround time: The usual turnaround time is 2-3 weeks however the laboratory will endeavour to respond to urgent requests. Where a major trisomy is suspected, a rapid PCR screen may be performed to provide an urgent provisional result.

Notes

- a) Rarely, blood samples fail to culture (<1%);
- b) The culture may yield chromosomes of insufficient quality. This will be indicated on the report and a repeat study suggested;
- c) The laboratory should be informed if the patient has recently received a blood transfusion.
- d) The laboratory should be informed if the patient has EVER had a bone marrow transplant.
- e) The patient's biological sex should be included on the request form.

PRENATAL DIAGNOSIS

Reasons for analysis: Chromosome studies are requested where pregnancies are identified as being at risk of a cytogenetic abnormality e.g. positive maternal serum screening combined NT test; fetal abnormalities found on ultrasound; or where a parent is a known carrier of a chromosome anomaly, or where a high risk trisomy has been found by NIPT.

Sample requirements:

- a) amniotic fluid 10ml+ in a plain sterile, leak-proof container. Suitable containers can be provided by the laboratory. The specimen must **not** be frozen. See sample stability section for cytogenetic samples.
- b) chorionic villus 5mg+ in sterile transport medium. Suitable containers containing medium can be provided by the laboratory. The specimen must **not** be frozen. See sample stability section for cytogenetic samples.
- c) fetal blood 1-2ml LITHIUM HEPARIN whole blood, gently mixed to prevent clotting.
 The specimen must not be frozen. See sample stability section for cytogenetic samples.

Turnaround time: This is dependent on the rate of cell growth, however, the usual turnaround time is approximately 2 weeks. A number of circumstances now occur more frequently, as invasive prenatal diagnosis becomes less common, that may result in delayed reporting time. These include:

- a) A delay in transportation in order to collect a batch of samples to reduce courier costs.
 Even when couriered promptly, sample growth may be slower than that seen in samples sent immediately.
- b) Sampling at early or late gestations, for example to confirm non-invasive tests or follow up anomaly scans.
- c) A tendency to take smaller quantities of sample or to take insufficient sample for multiple techniques.
- d) The request for karyotyping as an add-on after an initial PCR test.

Fetal blood results will usually be reported by 10 calendar days. For all other prenatal tests, please contact the laboratory prior to taking samples.

Notes

- a) Maternal contamination, and mosaicism may complicate the analysis and may lead to the suggestion that a second invasive test is performed.
- b) Rarely, cultures fail to grow (overall <1%)
- c) Very small chromosome abnormalities may not be detected (this is why the phrase 'No trisomies or major chromosome abnormalities detected...' is used in our reports).
- d) for TTTs or heavily blood stained amniocentesis samples, please provide a maternal EDTA blood sample for comparison studies.

SOLID TISSUE

Reasons for analysis: Fibroblast cultures may be used in addition to blood cultures, for example where tissue specific mosaicism is suspected, or where blood samples cannot be obtained. POC samples may be requested for early spontaneous miscarriages, stillbirths, or to confirm a prenatal diagnosis.

Sample requirements: All specimens should be placed in a sterile container, preferably containing transport medium. This can be supplied by the laboratory. Sterile normal saline can be used if transport medium is not available. Samples must not be placed in formaldehyde or other preservative and must not be frozen. See sample stability section for cytogenetic samples.

Turnaround time: This is dependent on the rate of cell growth, however, the usual turnaround time is approximately 4 weeks.

Notes

- a) Material from miscarriages has a relatively high culture failure rate (around 20%). Where failure occurs, alternative molecular methods may be attempted, usually a KaryoLite Bacs-on-Beads assay that can detect whole monosomy or trisomy of any chromosome, if possible.
- b) If no villus or fetal parts are identified in supposedly POC material and a normal female chromosome result is found, this may indicate that maternal tissue has been cultured (this will be noted on our report).
- c) Material from miscarriages can be returned for sensitive disposal if requested at the time of receipt. If no special request is made, fetal material will be sent for incineration separate from general clinical waste. Placental and other POC material will be disposed of in general clinical waste for incineration.

FLUORESCENCE IN SITU HYBRIDISATION (FISH)

Where FISH studies for specific microdeletion syndromes are required this must be indicated on the request form.

Note: FISH studies for a rapid pre or postnatal aneuploidy screen have now been superseded in our laboratory by multiplex-PCR technology. Subtelomeric screens are now performed by Array CGH as part of developmental delay investigations. Common microdeletion syndrome testing is now performed by BOBs analysis.

CELL LINE KARYOLOGY

The cytogenetics laboratory can perform cell line karyology on live cultures or fixed cells suspensions (recommended) on a research basis. Please note: a laboratory processing charge of £100+VAT is applicable to those cases wherein a successful analysis cannot be obtained. Please contact the laboratory for further details.

STATEMENT REGARDING MEASUREMENT UNCERTAINTY (MU)

Measurement Uncertainty is determined for each measurement procedure in the examination phase used to report measured quantity values on patients' samples. This is determined during verification of this assay for service introduction; creation of laboratory standard operating procedures (SOP) and interpretation of the results.

Where examinations include a measurement step but do not report a measured quantity value, the laboratory calculates the uncertainty of the measurement step where it has utility in assessing the reliability of the examination procedure or has influence on the reported result.

Estimates of measurement uncertainty are regularly reviewed and are available upon request to laboratory users.

KEY PERSONNEL					
Consultant Clinical Geneticist	Prof. Michael Patton	020 7307 7409	michael.patton@tdlpathology.com		
Consultant Clinical Scientist	Elaine Holgado	020 7307 7409	elaine.holgado@tdlpathology.com		
Head of Cytogenetics	Rebecca Watts	020 7460 4787	rebecca.watts@hslpathology.com		
Senior Cytogeneticist	Kath Masters	020 7307 7409	kath.masters@tdlpathology.com		
Cytogenetics Operations Manager	Emma Wilcock	020 7307 7409	emma.wilcock@tdlpathology.com		
Postnatal Lab Manager	Allison Daffern	020 7307 7409	allison.daffern@tdlpathology.com		
Director of Genetics & Molecular Pathology	Dr Lisa Levett	020 7307 7409	lisa.levett@tdlpathology.com		
Head of Genetics & Molecular Pathology	Dr Stuart Liddle	020 7307 7409	stuart.liddle@tdlpathology.com		
Operations Manager	Andrew Levett	020 3908 1282	andrew.levett@tdlpathology.com		
Molecular Cytogenetics Manager	Alessandra Callegari	020 7307 7409	alessandra.callegari@tdlpathology.com		

12-17 days 8 weeks 5 days 5-15 days 4 weeks 6 weeks 5-10 days
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10-15 days
2 days
6 weeks
8 weeks
8 weeks 4 weeks
4 weeks

TEST	CODE	SAMPLE REQS	TAT
Anophthalmia/Microphthalmia NGS Panel – full sequencing across 39 genes	GENE	A A ⁹	6 weeks
Antithrombin Deficiency – SERPINC1 Gene Variant Analysis (Known Genotype)	ATMA	(Whole Blood 10ml) 40	6 weeks
Antithrombin Deficiency – SERPINC1 Gene Variant Analysis (Unknown Genotype)	ATMA	(Whole Blood 10ml) 40	12 weeks
Aortopathy/Marfan Syndrome/Loeys-Dietz Syndrome NGS Panel – full sequencing across 30 genes	GENE	AA 9	6 weeks
Apert Syndrome – 2 common FGFR2 mutations	GENE	A 9	4 weeks
Apolipoprotein E genotype – E2, E3, E4	APEG	A 9	5 days
Array CGH (Comparative Genomic Hybridisation)	CGH	CVS/AF/(A) (1) 9	10 days
Arrhythmogenic Right Ventricular Cardiomyopathy (ARVC) NGS Panel – sequencing across 46 genes + deletions/duplications	GENE	AA 9	4 weeks
Ashkenazi Breast Cancer Screen		Requires patient informed consen	t
- 3 common mutations	GENE	A 9,11	4 weeks
Ashkenazi Jewish Carrier Screen – see Pan-ethnic/Jewish Carrier Profile	ASHJ	A 9	4 weeks
Ataxia/Episodic Ataxia Disorders NGS Panel – full sequencing across 152 genes	GENE	A A 9	6 weeks
Autoinflammation/Periodic Fever NGS Panel – full sequencing across 36 genes	GENE	AA 9	6 weeks
Azoospermia – karyotype + cystic fibrosis screen + polyT(5T) + Y deletions	GRP	A () 9	10-15 day
B cell clonality assay (IgH and IgK)	IGHA	Or FFPE	2 weeks
Bardet-Biedl Syndrome NGS Panel – full sequencing across 24 genes	GENE	AA 9	6 weeks
Batten Disease (Neuronal Ceroid Lipofuscinosis) NGS Panel – full sequencing across 14 genes	GENE	AA 9	6 weeks
BCR-ABL diagnostic assay	BCRD	A	2 weeks
BCR/ABL Quantitative – fusion gene sizes p190 + p210 – MUST arrive in the laboratory within 48 hours, before 12pm on Fridays	BCRA	A A 9	10 days
Becker Muscular Dystrophy – deletions/duplications	DND	A 9	10 days
Beckwith-Wiedemann Syndrome – methylation studies on 11p15 imprinting domains KvDMR + H19	GENE	A 9	4 weeks
Behcet's Disease – HLA Tissue Typing B*51	B51	A 9	10 days
Beta Thalassaemia – beta-globin gene sequencing	GENE	A 9	4 weeks
Bleeding and platelet disorders NGS Panel (known familial mutations) – Contact lab	GENE	AA	6 weeks
Bleeding and platelet disorders NGS Panel (unknown familial mutations) – Contact lab	GENE	Q Q	12 weeks
Blood PCR for Chromosome 21	BPCR	A	5 days
Bloom Syndrome – BLM gene sequencing	GENE	A 9	4 weeks
BOBs rapid chromosome analysis – see profiles			
BRAF V600E mutation by PCR for Hairy Cell Leukaemia	GENE	Bone Marrow/A	5 days

TEST	CODE	SAMPLE REQS	TAT
Breast Cancer Ashkenazi Screen - 3 common mutations	GENE	Requires patient informed consent	4 weeks
Breast Cancer – BRCA1 + BRCA2 only gene sequencing + deletions/duplications	GENE	A	4 weeks
Breast Cancer NGS Panel – full sequencing across 14 genes + deletions/duplications	GENE	Requires patient informed consent A A 9,11	4 weeks
Brugada Syndrome/Long-QT NGS Panel – full sequencing across 34 genes	GENE	A A 9	4 weeks
C-KIT D816V mutation by PCR for Mastocytosis	GENE	Bone Marrow/(A)	5 days
CADASIL – NOTCH3 gene sequencing	GENE	A 9	6 weeks
CAKUT (Congenital Anomalies of Kidney & Urinary Tract) NGS Panel – full sequencing across 38 genes	GENE	A A ⁹	6 weeks
Calreticulin – CALR exon 9 mutation screen	CALR	A 9	2 weeks
Cancer, Comprehensive NGS Panel – full sequencing across 123 genes + deletions/duplications	GENE	Requires patient informed consent (A) (A) 9,11	4 weeks
Carbohydrate Metabolism Deficiency NGS Panel – full sequencing across 47 genes + deletions/ duplications + mitochondrial DNA	GENE	A A ⁹	4 weeks
Cardio-Facio-Cutaneous/Noonan/LEOPARD/ Costello Syndromes NGS Panel – full sequencing across 20 genes	GENE	AA 9	6 weeks
Cardiomyopathy, Arrhythmogenic Right Ventricular NGS Panel – sequencing across 34 genes + deletions/duplications	GENE	A A ⁹	4 weeks
Cardiomyopathy, Comprehensive NGS Panel – full sequencing across 111 genes + deletions/duplications	GENE	A A 9	4 weeks
Cardiomyopathy, Dilated NGS Panel – full sequencing across 78 genes + deletions/duplications	GENE	A A ⁹	4 weeks
Cardiomyopathy, Hypertrophic NGS Panel – full sequencing across 86 genes + deletions/duplications	GENE	A A ⁹	4 weeks
Carrier Screen (Pan-ethnic or Jewish) – see profiles	GENE	A 9	4 weeks
Charcot-Marie-Tooth Syndrome NGS Panel – full sequencing across 59 genes	GENE	A A ⁹	6 weeks
Charcot-Marie-Tooth Type 1A – PMP22 duplications	GENE	A 9	4 weeks
CHARGE Syndrome – CHD7 gene sequencing	GENE	A 9	8 weeks
Chediak-Higashi Syndrome – LYST gene sequencing	GENE	A 9	4 weeks
Cholestasis, Intrahepatic NGS Panel - full sequencing across 15 genes	GENE	A A 9	6 weeks
Chromosome Analysis (Amniocentesis) – culture only	ACUL	AF ⁹	10-15 days
Chromosome Analysis (Amniocentesis) – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days) – see profiles	ABK	AF ⁹	5-15 days
Chromosome Analysis (Amniocentesis) - rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	APCC	AF ⁹	2-15 days

TEST	CODE	SAMPLE REQS	TAT
Chromosome Analysis (Blood)	KARY	(1) 9	8-18 days
Chromosome Analysis (Chorionic Villus) – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days) – see profiles	CBK	CVS ⁹	5-15 days
Chromosome Analysis (Chorionic Villus) - rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	CVPC	CVS 1,9	2-15 days
Chromosome Analysis (Chorionic Villus) – culture onl	y CVSC	CVS 1,9	10-15 days
Chromosome Analysis (Products of Conception) – BOBs rapid aneuploidy diagnosis for all chromosomes (5 days) + culture (25 days)	PBK	Placental Sample 1,9	5-25 days
Chromosome Analysis (Products of Conception) – reflex to BOBs testing if culture fails to grow	PROC	Placental Sample 1,9	20-25 days
Chromosome Analysis (Solid Tissue)	PROC	Fetal tissue 1,9	4-5 weeks
Chromosome Analysis (Stem Cells)	STEM/ SUSP	Culture/Fixed cells	Contact lab
Chromosome Y Deletion – AZFa, AZFb, AZFc + SRY	YDEL	A 9	5 days
Cockayne Syndrome NGS Panel - full sequencing ERCC6 + ERCC8	GENE	A A 9	5 weeks
Coeliac Disease – HLA DQ2/DQ8 Genotype	Q2Q8	A 9	10 days
Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications	Re GENE	equires patient informed cons	sent 4 weeks
Comparative Genomic Hybridisation (Array CGH)	CGH	CVS/AF/(A) (1) 9	10 days
Congenital Absence of Vas Deferens – karyotype + cystic fibrosis screen + polyT(5T) + Y deletions	GRP	A H ⁹	10-15 days
Congenital Central Hypoventilation Syndrome (CCHS) – PHOX2B polyalanine repeat analysis	GENE	A 9	4 weeks
Congenital Central Hypoventilation Syndrome (CCHS) – full sequencing PHO X2B gene	GENE	A 9	4 weeks
Congenital Muscular Dystrophy NGS Panel – full sequencing across 27 genes	GENE	A A 9	6 weeks
Connective Tissue Disorders/Ehlers-Danlos Syndrome/Aneurysm NGS Panel – full sequencing across 46 genes + deletions/duplications	GENE	A A ⁹	5 weeks
Connexin-26 Associated Deafness – full sequencing GJB2 gene (+ GJB6 common deletion)	GENE	A 9	8 weeks
Cornelia de Lange Syndrome NGS Panel – full sequencing across 8 genes	GENE	A A 9	6 weeks
Costello/Noonan/LEOPARD/Cardio-Facio-Cutaneous Syndromes NGS Panel – full sequencing across 20 genes	GENE	A A 9	6 weeks
Craniosynostosis and related disorders NGS Panel	GENE	AA	6 weeks
Cri du Chat Syndrome - BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1) 9	5-15 days
Cri du Chat Syndrome – BOBs only	PB0B	CVS/AF/A 9	5 days
CVS PCR for common aneuploidies (2 days) + culture (10-15 days)	CVPC	CVS 9	2-15 days

TEST	CODE	SAMPLE REQS	TAT
CVSBOBs – rapid BOBs aneuploidy diagnosis for all chromosomes (3-5 days) + culture (10-15 days) – see profiles	СВК	CVS ⁹	5-15 days
CVSBOBs only – rapid aneuploidy diagnosis for all chromosomes + common microdeletion syndromes	СВОВ	CVS ⁹	5 days
CYP450 2D6 Genotyping	TGEN	A 9	10 days
Cystic Fibrosis (139 common mutations) – reflex to Poly T when required	CFS	A 9	5 days
Deafness NGS Panel – full sequencing across 179 genes	GENE	A A ⁹	6 weeks
Deafness, Non-Syndromic – GJB2 sequencing + GJB6 common deletion	GENE	A 9	8 weeks
Dentinogenesis/Amelogenesis Imperfecta NGS Panel – full sequencing across 31 genes	GENE	A A 9	6 weeks
Diabetes Mellitus, MODY NGS Panel – full sequencing across 13 genes	GENE	A A 9	6 weeks
Diabetes Mellitus, Neonatal NGS Panel – full sequencing across 26 genes	GENE	A A ⁹	6 weeks
DiGeorge Syndrome (22q11 & 10p14 deletion) – BOBs (5 days) + karyotype (15 days)	DGB, KARY	CVS/AF/A (1) 9	5-15 days
DiGeorge Syndrome (22q11 & 10p14) – BOBs only	DGB	CVS/AF/(A) 9	5 days
Dihydropyrimidine Dehydrogenase deficiency screening (Fluoropyrimidine Toxicity) – 5 mutations	GENE	A 9	1-2 weeks
Dilated Cardiomyopathy NGS Panel – full sequencing across 78 genes + deletions/duplications	GENE	A A ⁹	4 weeks
DNA Extraction & Storage - 3 years (longer upon request)	XDNA	A 9	20 days
DNA Identity Profile – 15 STR markers	DNAF	A 9	10 days
Doyne Honeycomb Retinal Dystrophy – EFEMP1 screening	GENE	A 9	4 weeks
Duchenne Muscular Dystrophy – deletions/duplications only	DMD	A 9	10 days
Duchenne Muscular Dystrophy – full sequencing DMD1 gene	GENE	A 9	6 weeks
DVT/Pre-travel Screen	DVT1	A B 9	5 days
Ehlers-Danlos Syndrome/Aneurysm/Connective Tissue Disorders NGS Panel – full sequencing across 46 genes + deletions/duplications	GENE	A A ⁹	5 weeks
Endometrial Cancer NGS Panel – full sequencing across 10 genes + deletions/duplications	GENE	Requires patient informed cons	ent 4 weeks
Epidermolysis Bullosa, Comprehensive NGS Panel – full sequencing across 13 genes	GENE	A A 9	6 weeks
Epidermolysis Bullosa, Simplex Panel – full sequencing of KRT5 + KRT14 genes	GENE	A A 9	8 weeks
Epilepsy, Adolescent/Adult Onset Panel – sequencing across 83 genes + deletions/duplications	GENE	A	6 weeks

TEST	CODE	SAMPLE REQS	TAT
Epilepsy, Childhood Panel – full sequencing across 211 genes + deletions/duplications	GENE	Δ	6 weeks
Epilepsy, Comprehensive NGS Panel – full sequencing across 400 genes + deletions/duplications	GENE	A A ⁹	6 weeks
Epilepsy, Neonatal Panel – sequencing across 278 genes + deletions/duplications	GENE	Δ	6 weeks
Epilepsy, Progressive Myoclonic Panel – sequencing across 18 genes + deletions/duplications	GENE	A	6 weeks
Exudative Vitreoretinopathy, Familial (FEVR) NGS Panel – full sequencing NDP + FZD4 + LRP5 + TSPAN12 + ZNF408 genes	GENE	A A 9	4 weeks
Eye Developmental Disease NGS Panel – full sequencing across 59 genes	GENE	A A 9	4 weeks
Fabry Disease, X-linked – GLA gene sequencing	FABM	A 9	4 weeks
Facioscapulohumeral Muscular Dystropy (FSHD) – D4Z4 repeat deletion – Contact lab prior to sending	GENE	AAA 9	8 weeks
Factor II Prothrombin – G20210A mutation	FX2	A 9	5 days
Factor V Leiden – G1691A mutation	FX5	A 9	5 days
Factor VII Deficiency – F7 Gene Variant Analysis (Known Genotype)	7MA	(Whole blood 10ml) 40	6 weeks
Factor VII Deficiency – F7 Gene Variant Analysis (Unknown Genotype)	7MA	(Whole blood 10ml) 40	12 weeks
Factor X Deficiency – F10 Gene Variant Analysis (Known Genotype)	10MA	(Whole blood 10ml) 40	6 weeks
Factor X Deficiency – F10 Gene Variant Analysis (Unknown Genotype)	10MA	(Whole blood 10ml) 40	12 weeks
Factor XI Deficiency – F11 Gene Variant Analysis (Known Genotype)	11MA	(Whole blood 10ml) 40	6 weeks
Factor XI Deficiency – F11 Gene Variant Analysis (Unknown Genotype)	11MA	(Whole blood 10ml) 40	12 weeks
Familial Adenomatous Polyposis (FAP) – full	R	Requires patient informed conse	nt
sequencing across 18 genes + deletions/duplications	GENE	A A 9,11	4 weeks
Familial Exudative Vitreoretinopathy (FEVR) NGS Panel – full sequencing NDP + FZD4 + LRP5 + TSPAN12 + ZNF408 genes	GENE	A A 9	4 weeks
Familial Hypercholesterolaemia - LDLR + APOB + PCSK9 + LDLRAP1 screening	GENE	A A 9	4 weeks
Familial Hypocalciuric Hypercalcaemia (FHH) Panel – full sequencing CASR + AP2S1 + GNA11 genes	GENE	A A ⁹	8 weeks
Familial Mediterranean Fever – hotspot sequencing MEFV gene	GENE	A 9	4 weeks
Familial Medullary Thyroid Carcinoma	R	Requires patient informed conse	nt
- hotspot sequencing RET gene	GENE	A 9,11	8 weeks
Fatty Acid Oxidation Deficiency NGS Panel – full sequencing across 22 genes	GENE	A A 9	6 weeks

		SAMPLE REQS	TAT
Fever (Recurrent) Screening – across 4 genes	GENE	AA	6 weeks
FLT3-ITD and FLT3-TKD screening assay	FLT3	A	3-5 days
Fragile X Syndrome screen – FMR1 repeat analysis PCR (3 weeks) + Southern Blot (8 weeks) if required	GENE	A A A 9	3-8 weeks
Friedreich Ataxia – frataxin gene repeat analysis	GENE	A 9	4 weeks
Gastric Cancer NGS Panel – full sequencing across	Re	quires patient informed cons	ent
15 genes + deletions/duplications	GENE	A A 9,11	4 weeks
Gaucher Disease – 8 common mutations	GENE	A 9	4 weeks
Gaucher Disease full gene sequencing	GDMA	A 40	4 weeks
Genetic Reproductive Profile (Male) – see profiles	GRP	A H 9	10-15 days
Gilbert Syndrome – common UGT1A1 repeat variation	GENE	A 9	6 weeks
Glaucoma NGS Panel – full gene sequencing across 26 genes	GENE	A A 9	6 weeks
Glucose-6-Phosphate Dehydrogenase (G6PD) Deficiency – full G6PD gene sequencing	GENE	A 9	4 weeks
Glycogen storage disease type 2 (Pompe) mutation analysis	POMP	A	4 weeks
Haemochromatosis – HFE common mutations C282Y + H63D	HMD	A 9	3 days
Haemolytic–Uremic Syndrome NGS Panel – full sequencing across 15 genes	GENE	A A ⁹	8 weeks
Haemophilia A Variant Analysis (Known Genotype) – F8 Intron 22 Inversion, F8 Intron 1 Inversion, Sequence analysis of known variants for F8 gene	HACD	(Whole blood 10ml) 40	6 weeks
Haemophilia A Variant Analysis (Unknown Genotype) – F8 Intron 22 Inversion, F8 Intron 1 Inversion, Sequence analysis of unknown variants for F8 gene	GENE	(Whole blood 10ml) 40	12 weeks
Haemophilia A CVS Variant Analysis (Known Genotype) – F8 Intron 22 Inversion, F8 Intron 1 Inversion, Sequence analysis of known variants for F8 gene	8CVS	CVS ⁴⁰	3 days
Haemophilia B Variant Analysis (Known Genotype) – Sequence analysis of known variants for F9	HBCD	(Whole blood 10ml) 40	6 weeks
Haemophilia B Variant Analysis (Unknown Genotype) – Sequence analysis of unknown variants for F9	НВМА	(Whole blood 10ml) 40	12 weeks
Haemophilia B CVS Variant Analysis (Known Genotype) – Sequence analysis of known variants for F9	9CVS	CVS 40	3 days
Harmony® Prenatal Test (Non-Invasive Prenatal Testing) – common aneuploidy screening from maternal blood	NIPT	J/Special tubes ¹	3-5 days
Harmony® Prenatal Test (Non-Invasive Prenatal	NIPQ	J/Special tubes 1	3-5 days
Testing) – common aneuploidy screening from maternal blood including 22q11.2 del	THI Q		

TEST	CODE	SAMPLE REQS	TAT
Hemiplegic Migraine, Familial NGS Panel – full sequencing across 6 genes + mtDNA	GENE	A A ⁹	5 weeks
Hereditary Cancer NGS Panel, Comprehensive – full sequencing across 127 genes + deletions/duplications	GENE	Requires patient informed conser (A) (A) 9,11	nt 4 weeks
Hereditary Hemorrhagic Telangiectasia – ACVRL1 + ENG full sequencing + deletions/duplications	GENE	A A 9	8 weeks
Hereditary Neuropathy NGS Panel – full sequencing across 39 genes	GENE	A A ⁹	6 weeks
Hereditary Neuropathy with Liability to Pressure Palsy – PMP22 deletion analysis	GENE	A 9	4 weeks
Hereditary Non-Polyposis Colon Cancer (Lynch Syndrome) NGS Panel – full sequencing across 18 genes + deletions/duplications	GENE	Requires patient informed conser (A) (A) 9,11	nt 4 weeks
Hereditary Pancreatitis – PRSS1 hotspot sequencing + deletions/duplications + SPINK1 N34S common mutation	GENE	A 9	8 weeks
Hereditary Spastic Paraplegia NGS Panel – full sequencing across 262 genes + deletions/duplications + mitochondrial DNA	GENE	AA 9	5 weeks
Hermansky-Pudlak Syndrome/Oculocutaneous Albinism/Pigmentation NGS Panel – full sequencing across 30 genes	GENE	A A 9	4 weeks
HFE gene (Haemochromatosis) – common mutations C282Y + H63D	HMD	A 9	3 days
Hirschprung Disease NGS Panel – full sequencing across 6 genes + copy number variant	GENE	A A 9	4 weeks
HLA Tissue Typing A	HLA	A 9	10 days
HLA Tissue Typing A+B	HLBA	A 9	10 days
HLA Tissue Typing A+B+C (Class I)	HABC	A 9	10 days
HLA Tissue Typing A/B/DRB1/3/4/5	HLAF	A 9	10 days
HLA Tissue Typing A/B/DRB1/3/4/5/DQB1	HLF	A 9	10 days
HLA Tissue Typing A/B/C/DRB1/3/4/5/DQB1 (Class I & II)	HLFC	A 9	10 days
HLA Tissue Typing B	HLB	A 9	10 days
HLA Tissue Typing B*27 only	HLAB	A 9	3 days
HLA Tissue Typing B*51 (Behcet's Disease)	B51	A 9	10 days
HLA Tissue Typing B*57:01 high resolution	HL57	A 9	10 days
HLA Tissue Typing C	HLC	A 9	10 days
HLA Tissue Typing Coeliac Disease – DQ2/DQ8	Q2Q8	A 9	10 days
HLA Tissue Typing DRB1/3/4/5	DRB1	A 9	10 days
HLA Tissue Typing DRB1/3/4/5/DQB1 (Class II)	HLDQ	A 9	10 days
HLA Tissue Typing Narcolepsy – DQB1*06:02	GENE	A 9	4 weeks
Huntington Disease – HD gene repeat analysis PCR	GENE	Requires patient informed conser	nt 4 weeks
Hyperinsulinism NGS Panel	ULIVE	66	4 MCCV2

Hyperparathyroidism – CASR sequencing GENE				
Hypertriglyceridemia NGS Panel full sequencing across 47 genes Identity Profile (DNA) – 15 STR markers DNAF IgVH mutation analysis for CLL Incontinentia Pigmenti, X-linked - IKBKGNEMO common mutation Intellectual Disability NGS Panel – full sequencing across 560 genes + deletions/duplications Intrahepatic Cholestasis NGS Panel full sequencing ABCB11 + ABCB4 + ATP8P1 Incon Overload Profile IDOP A A B A B A B A B A B A B A B A B A B	TEST	CODE		
Tell sequencing across 47 genes Sweeks		GENE	A 9	8 weeks
Incontinentia Pigmenti, X-linked - IKBKG/NEMO common mutation Intralepatic Cholestasis NGS Panel - full sequencing across 560 genes + deletions/duplications Intralepatic Cholestasis NGS Panel - full sequencing across 560 genes + deletions/duplications Intralepatic Cholestasis NGS Panel - full sequencing across 560 genes + deletions/duplications Intralepatic Cholestasis NGS Panel - full sequencing ACS 11 + ABCB4 + ATP8P1 Intron Overload Profile IDP		GENE		8 weeks
Incontinentia Pigmenti, X-linked - IKBKG/NEMO common mutation Intellectual Disability NGS Panel – full sequencing across 560 genes + deletions/duplications Intrahepatic Cholestasis NGS Panel - full sequencing ACB11 + ABCB4 + ATP8P1 Iron Overload Profile IDP	Identity Profile (DNA) – 15 STR markers	DNAF	A 9,11	10 days
Intellectual Disability NGS Panel — full sequencing across 560 genes + deletions/duplications Intraleptatic Cholestasis NGS Panel — full sequencing across 560 genes + deletions/duplications Intraleptatic Cholestasis NGS Panel — full sequencing ABCB11 + ABCB4 + ATP8P1 Iron Overload Profile	lgVH mutation analysis for CLL	IGMU	A	4 weeks
across 560 genes + deletions/duplications Intrahepatic Cholestasis NGS Panel - full sequencing ABCB11 + ABCB4 + ATP8P1 Intron Overload Profile JAK 2 — exon 12 sequencing (rare mutations) - MUST arrive in the laboratory within 48 hours, before 12pm on Fridays JAK2 Venes of 15 sequencing sasay JAK2 A 9 6 weeks Kallmann Syndrome NGS Panel - full sequencing across 19 genes Kallmann Syndrome NGS Panel - full sequencing across 19 genes Karyotype - See Chromosome Analysis Kennedy Disease (Spinal Bulbar Muscular Atrophy) - AR repeat expansion Kennedy Disease (Spinal Bulbar Muscular Atrophy) - AR repeat expansion Kentolysis Disorders NGS Panel - full sequencing across 27 genes + deletions/duplications Krabbe Disease - GALC sequencing + 502T/del common deletion Lactose Intolerance Gene La	Incontinentia Pigmenti, X-linked – IKBKG/NEMO common mutation	GENE	A 9	4 weeks
Tell sequencing ABCB11 + ABCB4 + ATP8P1 Iron Overload Profile Iron Overload Iron Ove	Intellectual Disability NGS Panel – full sequencing across 560 genes + deletions/duplications	GENE	A A ⁹	6 weeks
JAK 2 – exon 12 sequencing (rare mutations) — MUST arrive in the laboratory within 48 hours, before 12pm on Fridays JaK2 V617F genotyping assay JAK2 Q Q 2 weeks Jervell and Lange-Nielsen Syndrome — full sequencing KCNE1 + KCNQ1 genes Jewish/Pan-ethnic carrier screening – see profiles Jewish/Pan-ethnic carrier screening – see profiles Joubert/Meckel-Gruber Syndrome NGS Panel — full sequencing across 39 genes Kallmann Syndrome NGS Panel — full sequencing across 19 genes Karyotype – See Chromosome Analysis Kennedy Disease (Spinal Bulbar Muscular Atrophy) —AR repeat expansion Ketolysis Disorders NGS Panel — full sequencing across 7 genes Ketolysis Disorders NGS Panel — full sequencing across 7 genes Ketolysis Disorders NGS Panel — full sequencing across 7 genes Ketolysis Disorders NGS Panel — full sequencing across 7 genes Ketolysis Disorders NGS Panel — full sequencing across 7 genes Ketolysis Disorders NGS Panel — full sequencing across 7 genes Ketolysis Disorders NGS Panel — full sequencing across 7 genes Ketolysis Disorders NGS Panel — full sequencing across 27 genes + deletions/duplications Krabbe Disease — GALC sequencing + 502T/del common deletion Lactose Intolerance Gene LACG Q 2 weeks Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome NGS Panel — full sequencing across 32 genes Leber's Congenital Amaurosis NGS Panel — full sequencing across 32 genes Leber's Hereditary Optic Neuropathy — m.3460G>A — m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel — full sequencing across 78 genes + deletions/duplications + mitochondrial DNA Costello Syndrome NGS Panel — ful	Intrahepatic Cholestasis NGS Panel - full sequencing ABCB11 + ABCB4 + ATP8P1	GENE	A A ⁹	6 weeks
- MUST arrive in the laboratory within 48 hours, before 12pm on Fridays JAK2 V617F genotyping assay Jervell and Lange-Nielsen Syndrome - full sequencing KCNE1 + KCNQ1 genes Jewish/Pan-ethnic carrier screening − see profiles Joubert/Meckel-Gruber Syndrome NGS Panel - full sequencing across 39 genes Kallmann Syndrome NGS Panel - full sequencing across 19 genes Karyotype − See Chromosome Analysis Kennedy Disease (Spinal Bulbar Muscular Atrophy) - AR repeat expansion Ketolysis Disorders NGS Panel - full sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel − full sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel − full sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel − full sequencing across 27 genes + deletions/duplications Krabbe Disease − GALC sequencing + 502T/del common deletion Lactose Intolerance Gene Langer-Giedion Syndrome - BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome − BOBs only Langer-Giedion Syndrome − BOBs only Langer-Giedion Syndrome − BOBs only Leber's Congenital Amaurosis NGS Panel - full sequencing across 32 genes Lebers Hereditary Optic Neuropathy − m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel − full sequencing across 78 genes + deletions/duplications + mitochondrial DNA Costello Syndromes NGS Panel − full sequencing across 20 genes	Iron Overload Profile	IOP	A A B ⁹	3 days
Jervell and Lange-Nielsen Syndrome — full sequencing KCNE1 + KCNQ1 genes Jewish/Pan-ethnic carrier screening — see profiles Joubert/Meckel-Gruber Syndrome NGS Panel — full sequencing across 39 genes Kallmann Syndrome NGS Panel — full sequencing across 19 genes Karyotype — See Chromosome Analysis Kennedy Disease (Spinal Bulbar Muscular Atrophy) — AR repeat expansion Ketolysis Disorders NGS Panel — full sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel — full sequencing across 27 genes + deletions/duplications Krabbe Disease — GALC sequencing + 502T/del common deletion Lactose Intolerance Gene LACG — Requires patient informed consent GENE A 9 6 weeks Krabbe Disease — GALC sequencing + 502T/del common deletion Lactose Intolerance Gene LACG — Requires patient informed consent GENE — A 9 6 weeks Krabbe Disease — GALC sequencing - BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs only Leber's Congenital Amaurosis NGS Panel — full sequencing across 32 genes Lebers Hereditary Optic Neuropathy — m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel — full sequencing across 78 genes + deletions/duplications + mitochondrial DNA LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel — full sequencing across 20 genes	· · · · · · · · · · · · · · · · · · ·	GENE	A 9	4 weeks
- full sequencing KCNE1 + KCNQ1 genes Jewish/Pan-ethnic carrier screening – see profiles Joubert/Meckel-Gruber Syndrome NGS Panel — full sequencing across 39 genes Kallmann Syndrome NGS Panel — full sequencing across 19 genes Karyotype – See Chromosome Analysis Kennedy Disease (Spinal Bulbar Muscular Atrophy) — AR repeat expansion Ketolysis Disorders NGS Panel — full sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel — full sequencing across 27 genes + deletions/duplications Krabbe Disease – GALC sequencing + 502T/del common deletion Lactose Intolerance Gene LaCG A 9 6 weeks Krabbe Disease – GALC sequencing + 502T/del common deletion Lactose Intolerance Gene LACG A 9 6 weeks Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs only Leber's Congenital Amaurosis NGS Panel — full sequencing across 32 genes Lebers Hereditary Optic Neuropathy — m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel — full sequencing across 78 genes + deletions/duplications + mitochondrial DNA LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel — full sequencing across 20 genes	JAK2 V617F genotyping assay	JAK2	A	2 weeks
Joubert/Meckel-Gruber Syndrome NGS Panel — full sequencing across 39 genes Kallmann Syndrome NGS Panel — full sequencing across 19 genes Karyotype — See Chromosome Analysis Kennedy Disease (Spinal Bulbar Muscular Atrophy) — AR repeat expansion Ketolysis Disorders NGS Panel — full sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel — full sequencing across 27 genes + deletions/duplications Krabbe Disease — GALC sequencing + 502T/del common deletion Lactose Intolerance Gene Lactose Intolerance Gene Langer-Giedion Syndrome — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs only — BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs only — Full sequencing across 32 genes Leber's Congenital Amaurosis NGS Panel — full sequencing across 32 genes Leber Hereditary Optic Neuropathy — m.3460G>A — + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel — full sequencing across 78 genes + deletions/duplications + mitochondrial DNA LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel — full sequencing across 20 genes GENE A A B 9 6 weeks CENE A B 9 6 weeks GENE A B 9 6 weeks A W 9 6 weeks GENE A B 9 6 weeks GENE A B 9 6 weeks GENE A B 9 6 weeks	Jervell and Lange-Nielsen Syndrome – full sequencing KCNE1 + KCNQ1 genes	GENE	A A ⁹	6 weeks
Full sequencing across 39 genes Kallmann Syndrome NGS Panel - full sequencing across 19 genes Karyotype – See Chromosome Analysis Kennedy Disease (Spinal Bulbar Muscular Atrophy) - AR repeat expansion Ketolysis Disorders NGS Panel - full sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel – full sequencing across 27 genes + deletions/duplications Krabbe Disease – GALC sequencing + 502T/del common deletion Lactose Intolerance Gene LACG A 2 weeks Langer-Giedion Syndrome - BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome — BOBs only Leber's Congenital Amaurosis NGS Panel - full sequencing across 32 genes Lebers Hereditary Optic Neuropathy – m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel – full sequencing across 78 genes + deletions/duplications + mitochondrial DNA LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel – full sequencing across 20 genes	Jewish/Pan-ethnic carrier screening – see profiles	ASHJ	A 9	4 weeks
Full sequencing across 19 genes Karyotype – See Chromosome Analysis Kennedy Disease (Spinal Bulbar Muscular Atrophy) AR repeat expansion Ketolysis Disorders NGS Panel full sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel – full sequencing across 27 genes + deletions/duplications Krabbe Disease – GALC sequencing + 502T/del common deletion Lactose Intolerance Gene LaCG BOBB CVS/AF/A P S-15 days Langer-Giedion Syndrome – BOBs only Langer-Giedion Syndrome – BOBs only Leber's Congenital Amaurosis NGS Panel – full sequencing across 32 genes Lebers Hereditary Optic Neuropathy – m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel – full sequencing across 78 genes + deletions/duplications + mitochondrial DNA GENE A A 9 6 weeks Requires patient informed consent Requires patient informed consent GENE A 9 6 weeks CVS/AF/A P 9 5-15 days CVS/AF/A P 9 6 weeks CVS/AF/A P 9 6 weeks GENE A A 9 6 weeks CVS/AF/A P 9 6 weeks GENE A A 9 6 weeks	Joubert/Meckel-Gruber Syndrome NGS Panel – full sequencing across 39 genes	GENE	A A ⁹	6 weeks
Kennedy Disease (Spinal Bulbar Muscular Atrophy) AR repeat expansion Ketolysis Disorders NGS Panel full sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel – full sequencing across 27 genes + deletions/duplications Krabbe Disease – GALC sequencing + 502T/del common deletion Lactose Intolerance Gene LACG BOBB CVS/AF/A	Kallmann Syndrome NGS Panel – full sequencing across 19 genes	GENE	A A ⁹	6 weeks
Here the part of	Karyotype – See Chromosome Analysis			
Till sequencing across 7 genes Kidney/Urinary Tract Cancer NGS Panel − full sequencing across 27 genes + deletions/duplications Krabbe Disease − GALC sequencing + 502T/del common deletion Lactose Intolerance Gene LACG LACG LACG A 2 weeks Langer-Giedion Syndrome BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome − BOBs only Langer-Giedion Syndrome − BOBs only PBOB CVS/AF/A F 5-15 days Leber's Congenital Amaurosis NGS Panel full sequencing across 32 genes Lebers Hereditary Optic Neuropathy − m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel − full sequencing across 78 genes + deletions/duplications + mitochondrial DNA LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel − full sequencing across Costello Syndromes NGS Panel − full sequencing across Costello Syndromes NGS Panel − full sequencing across GENE A 9 6 weeks CUS/AF/A 9 6 weeks GENE A 9 6 weeks CENE A 9 6 weeks		GENE	A 9	6 weeks
sequencing across 27 genes + deletions/duplications GENE	Ketolysis Disorders NGS Panel – full sequencing across 7 genes	GENE	A A ⁹	6 weeks
Lactose Intolerance Gene Lactose Intoleranc	Kidney/Urinary Tract Cancer NGS Panel – full sequencing across 27 genes + deletions/duplications			4 weeks
Langer-Giedion Syndrome - B0Bs (5 days) + karyotype (15 days) Langer-Giedion Syndrome - B0Bs only Langer-Giedion Syndrome - B0Bs only Leber's Congenital Amaurosis NGS Panel - full sequencing across 32 genes Lebers Hereditary Optic Neuropathy - m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel - full sequencing across 78 genes + deletions/duplications + mitochondrial DNA GENE A A 9 4 weeks Costello Syndromes NGS Panel - full sequencing across Costello Syndromes NGS Panel - full sequencing GENE A A 9 6 weeks GENE A A 9 6 weeks	Krabbe Disease – GALC sequencing + 502T/del common deletion	GENE	A 9	6 weeks
- BOBs (5 days) + karyotype (15 days) Langer-Giedion Syndrome − BOBs only Leber's Congenital Amaurosis NGS Panel - full sequencing across 32 genes Lebers Hereditary Optic Neuropathy − m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel − full sequencing across 78 genes + deletions/duplications + mitochondrial DNA LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel − full sequencing across 20 genes KARY CVS/AF/♠	Lactose Intolerance Gene	LACG	A	2 weeks
Leber's Congenital Amaurosis NGS Panel — full sequencing across 32 genes Lebers Hereditary Optic Neuropathy — m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel — full sequencing across 78 genes + deletions/duplications + mitochondrial DNA LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel — full sequencing across 20 genes GENE A A 9 6 weeks 6 weeks	3	- ,	CVS/AF/A (1) 9	5-15 days
- full sequencing across 32 genes Lebers Hereditary Optic Neuropathy - m.3460G>A + m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel - full sequencing across 78 genes + deletions/duplications + mitochondrial DNA LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel - full sequencing across 20 genes GENE A 9 4 weeks A 6 9 6 weeks	Langer-Giedion Syndrome – BOBs only	PB0B	CVS/AF/A 9	5 days
+ m.11778G>A + m.14484T>C common mutations Leigh Syndrome NGS Panel – full sequencing across 78 genes + deletions/duplications + mitochondrial DNA LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel – full sequencing across across 20 genes Sene 4 weeks A A 9 6 weeks	Leber's Congenital Amaurosis NGS Panel – full sequencing across 32 genes	GENE	A A ⁹	6 weeks
78 genes + deletions/duplications + mitochondrial DNA GENE 4 weeks LEOPARD/Noonan/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel – full sequencing GENE across 20 genes GENE A A 9 6 weeks	Lebers Hereditary Optic Neuropathy – m.3460G>A + m.11778G>A + m.14484T>C common mutations	GENE	A 9	8 weeks
Costello Syndromes NGS Panel – full sequencing GENE A 9 6 weeks across 20 genes	Leigh Syndrome NGS Panel – full sequencing across 78 genes + deletions/duplications + mitochondrial DNA	GENE	A A 9	4 weeks
Leukaemia Fusion Gene Screening Assay (Q30) LMPX (A) 2 weeks	Costello Syndromes NGS Panel – full sequencing	GENE	A A 9	6 weeks
	Leukaemia Fusion Gene Screening Assay (Q30)	LMPX	A	2 weeks

TEST	CODE	SAMPLE REQS	TAT
Li-Fraumeni Syndrome (p53-related cancer predisposition) – TP53 sequencing + MLPA	GENE	Requires patient informed cons	sent 6 weeks
Limb-Girdle Muscular Dystrophy (LGMD) NGS Panel – full sequencing across 34 genes	GENE	A A ⁹	6 weeks
Lissencephaly NGS Panel – full sequencing across 14 genes	GENE	A A ⁹	8 weeks
Loeys-Dietz Syndrome/Marfan Syndrome/Aortopath NGS Panel – full sequencing across 30 genes	IY GENE	A A ⁹	8 weeks
Long-QT Syndrome/Brugada Syndrome – full sequencing across 34 genes	GENE	A A ⁹	4 weeks
Lowe (Oculocerebrorenal) Syndrome - OCRL sequencing + large deletions	GENE	A 9	8 weeks
Lung Disorders NGS Panel - full sequencing across 51 genes	GENE	A A ⁹	6 weeks
Lynch Syndrome (HNPCC) NGS Panel – full sequencin across 18 genes + deletions/duplications	ig Gene	Requires patient informed cons	sent 4 weeks
Lysosomal Disorders NGS Panel – full sequencing across 106 genes	GENE	A A ⁹	6 weeks
Male Genetic Reproductive Profile – see profiles	GRP	A (1) 9	10-15 days
Marfan Syndrome - FBN1 sequencing + deletions/duplications	GENE	A 9	5 weeks
Marfan Syndrome/Loeys-Dietz Syndrome/Aortopath NGS Panel – full sequencing across 30 genes	GENE	A A ⁹	6 weeks
Maturity-Onset Diabetes of the Young (MODY) NGS Panel – full sequencing across 14 genes	GENE	A A ⁹	6 weeks
Meckel-Gruber/Joubert Syndrome NGS Panel – full sequencing across 39 genes	GENE	A A ⁹	6 weeks
Medium-Chain Acyl-CoA Dehydrogenase Deficiency – ACADM sequencing	GENE	A 9	4 weeks
Melanoma NGS Panel – full sequencing across		Requires patient informed cons	sent
14 genes + deletions/duplications	GENE	A A 9,11	4 weeks
Microdeletion (common) Syndromes – BOBs only	PB0B	CVS/AF/(A) 9	5 days
Microphthalmia/Anophthalmia/Coloboma NGS Panel – full sequencing across 39 genes	GENE	A A ⁹	6 weeks
Miller-Dieker Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1) 9	5-15 days
Miller-Dieker Syndrome – BOBs only	PB0B	CVS/AF/A 9	5 days
Mitochondrial genome – full mitochondrial DNA sequencing + deletions	GENE	A 9	5 weeks
Mitochondrial genome sequencing	GENE	A 9	5 weeks
Motor Neurone Disease (Amylotrophic Lateral Sclerosis) NGS Panel – full sequencing across 43 genes	GENE	A A ⁹	6 weeks
MPL exon 10 analysis	MPL	A	2 weeks
MTHFR – common C677T + A1298C mutations	MTHF	A 9	5 days
	-		

TEST	CODE	SAMPLE REQS	TAT
Mucopolysaccharidosis NGS Panel – full sequencing across 11 genes	GENE	A A ⁹	8 weeks
Multiple Endocrine Neoplasia Type 1 – full MEN1 sequencing	GENE	Requires patient informed consent A 9,11	8 weeks
Multiple Endocrine Neoplasia Type 2 — RET gene hotspot sequencing	GENE	Requires patient informed consent A 9,11	8 weeks
Myotonic Dystrophy Type 1 – DMPK repeat PCR	GENE	A 9	4 weeks
Myotonic Dystrophy Type 2 (PROMM) – ZNF9 repeat PCR	GENE	A 9	4 weeks
Narcolepsy (HLA DQB1*06:02)	GENE	A 9	4 weeks
Nephrotic Syndrome, Steroid-Resistant NGS Panel – full sequencing across 14 genes	GENE	A A 9	6 weeks
Nervous System/Brain Cancer NGS Panel – full sequencing across 27 genes + deletions/duplications	GENE	Requires patient informed consent $\mathbf{A} \mathbf{A} 9_{111}$	4 weeks
Neurofibromatosis Type 1 – NF1 + SPRED1 sequencing + deletions/duplications – Contact lab prior to sending	GENE	Requires patient informed consent A A 9,11	8 weeks
Neurofibromatosis Type 2 (Bilateral Acoustic) – NF2 sequencing + deletions/duplications	GENE	A 9	8 weeks
Neuronal Ceroid Lipofuscinosis (Batten Disease) NGS Panel – full sequencing across 14 genes	GENE	A A ⁹	6 weeks
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood	NIPT	J/Special tubes 1	3-5 days
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood including 22q11.2 del	NIPQ	J/Special tubes ¹	3-5 days
Noonan Syndrome Prenatal Screening – PTPN11 exons 3 & 8 only	GENE	CVS/AF	2 weeks
Noonan/LEOPARD/Cardio-Facio-Cutaneous/ Costello Syndromes NGS Panel – full sequencing across 20 genes	GENE	A A 9	6 weeks
NPM1 mutascreen assay	NPM1	A	2 weeks
Nystagmus, X-linked Infantile – FRMD7 gene sequencing	GENE	A 9	4 weeks
Oculocutaneous Albinism/Hermansky-Pudlak Syndrome/Pigmentation NGS Panel – full sequencing across 30 genes	GENE	A A ⁹	4 weeks
Oculopharyngeal Muscular Dystrophy – PABPN1 repeat analysis	GENE	A 9	4 weeks
Optic Atrophy NGS Panel – full sequencing OPA1 + OPA3 genes	GENE	A A ⁹	4 weeks
Osteogenesis Imperfecta NGS Panel – full sequencing across 14 genes	GENE	A A ⁹	5 weeks
Ovarian Cancer NGS Panel – full sequencing across 16 genes + deletions/duplications	GENE	Requires patient informed consent (A) (A) 9,11	4 weeks

CODE	SAMPLE REQS	TAT
Re GENE	equires patient informed cons	ent 6 weeks
GENE	A 9	4 weeks
Re GENE	equires patient informed cons	ent 4 weeks
GENE	A 9	8 weeks
Re GENE	equires patient informed cons	ent 4 weeks
PATT	A /AF/CVS 9,11,12 Contact lab	5 days
GENE	A 9	8 weeks
GENE	A 9	4 weeks
GENE	A A ⁹	6 weeks
GENE	A 9	8 weeks
KARY, FISH	CVS/AF/(1) 9	12-17 days
Re GENE	equires patient informed cons	ent 4 weeks
GENE	A A ⁹	4 weeks
GENE	A 9	5 weeks
GENE	A A ⁹	6 weeks
GENE	A A ⁹	6 weeks
CGH	A H ⁹	10 days
PWAM	A 9	5 days
CGH	Amniotic fluid or CVS 9	10 days
ABK or CBK	AF/CVS ⁹	3-5 days, 15 days
PND	CVS/Amniocentesis/ fetal blood	3 days
DVT1	A A B ⁹	5 days
	A A 9	
	GENE GENE GENE GENE GENE GENE GENE GENE	Requires patient informed consider GENE A A 9.11 PATT Contact lab GENE A 9 GENE A 9 GENE A 9 GENE A 9 GENE Requires patient informed consider GENE A 9 GENE A 9 GENE A 9 GENE A 9 GENE A A 9 CGH A Milotic fluid or CVS 9 ABK or CBK AF/CVS 9 PND CVS/Amniocentesis/ fetal blood

TEST	CODE	SAMPLE REQS	TAT
Primary Hyperoxaluria Panel – full sequencing across 3 genes + C	NV GENE	A	6 weeks
Products of Conception – rapid BOBs diagnosis for all chromosomes (5 day + culture (25 days)		Placental Sample 1,9	5-25 days
Products of Conception BOBs only – rapid aneuploidy diagnosis for all ch	romosomes KB0E	Placental Sample or Solid Tissue 1,9	3-6 days
Prostate Cancer NGS Panel – full sequacross 12 genes + deletions/duplicati	•	Requires patient informed co	onsent 4 weeks
Protein C Deficiency – PROC Gene Var Analysis (Known Genotype)	iant PCMA	(Whole blood 10ml) 40	6 weeks
Protein C Deficiency – PROC Gene Var Analysis (Unknown Genotype)	iant PCMA	(Whole blood 10ml) 40	12 weeks
Pseudoachondroplasia (Multiple Epip Dysplasia) – COMP hotspot sequenci	" GENE	A 9	8 weeks
PTEN-related disorders (including Ba Ruvalcaba, Cowden & Proteus Synd – sequencing + deletions/duplications	dromes) GENE	A A 9,11	8 weeks
QF-PCR rapid common aneuploidy so	reen APC	AF / A 9	1-2 days
Recurrent Fever Screening – across 4	genes GENE	AA	6 weeks
Recurrent Miscarriage Profile (female	e) – see profiles RMP	A A B O O O O O O O O O O	10-15 day
Renal Cysts and Diabetes (RCAD) - HNF-1β sequencing + deletions/du	plications GENE	A 9	8 weeks
Renal/Urinary Tract Cancer NGS Pane sequencing across 28 genes + deletion		Requires patient informed consent S GENE A 9,11 4 w	
Retinal Dystrophy/NGS Panel - full sequencing across 537 genes	GENE	A A 9	5 weeks
Retinoblastoma – RB1 sequencing + deletions/duplications	GENE	Requires patient informed co	onsent 8 weeks
Rett Syndrome (MECP2 gene only)		Requires patient informed co	onsent
- full sequencing + deletions/duplicat	ions GENE	A 9,11	8 weeks
Rett/Angelman Syndromes NGS Pane - full sequencing across 30 genes	GENE	A A ⁹	6 weeks
Sarcoma NGS Panel – full sequencing 26 genes + deletions/duplications	across GENE	Requires patient informed co	onsent 4 weeks
Short-Chain Acyl-CoA Dehydrogenas Deficiency – ACADS sequencing	e GENE	A 9	5 weeks
Short Stature – SHOX mutation screen + deletions/duplications	GENE	A 9	8 weeks
Silver-Russell Syndrome – methylatio on 11p15 imprinting domains KvDMR	(i-h)	A 9	4 weeks
Skeletal Dysplasia NGS Panel – full sequencing across 179 genes	GENE		6 weeks
Smith-Lemli-Opitz Syndrome - DHCR	7 seguencing GENE	A 9	8 weeks

TEST	CODE	SAMPLE REQS	TAT
Smith-Magenis Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1) 9	5-15 days
Smith-Magenis Syndrome – BoBs only	PBOB	CVS/AF/A 9	5 days
Sotos Syndrome (Cerebral Gigantism) - NSD1 sequencing + deletions/duplications	GENE	A 9	5 weeks
Spastic Paraplegia NGS Panel – full sequencing across 262 genes + deletions/duplications + mitochondrial DNA	GENE	A A 9	5 weeks
Spinal Bulbar Muscular Atrophy (Kennedy Disease) – AR repeat analysis	GENE	A 9	6 weeks
Spinal Muscular Atrophy – SMN1 deletions/duplications	SMA	A 9	10 days
Spinocerebellar Ataxia – multiplex SCA1+2+3+6+7+17 common repeat expansions	GENE	A 9	4 weeks
SRY (Sex-determining Region Y)	SRY	A 9	2 days
Stargardt/Macular Dystrophy NGS Panel – full sequencing across 13 genes	GENE	A A ⁹	4 weeks
Stickler Syndrome NGS Panel – full sequencing across 11 genes	GENE	A A 9	6 weeks
Systemic mastocystosis – C-Kit common mutation (KIT D816V)	GENE	Bone Marrow/	5 days
T cell clonality assay (TCR beta and TCR gamma)	TCRA	(A) or FFPE	2 weeks
Tay Sachs Screen – 5 common mutations. See also Pan-Ethnic/Jewish Carrier Profile	GENE	A 9	5 weeks
Thrombotic Risk Profile – see profiles	PROP	A A B C C C 18	5 days
Thyroid Cancer NGS Panel – full sequencing	Rec	quires patient informed conse	ent
across 7 genes + deletions/duplications	GENE	A A 9,11	4 weeks
Torsion Dystonia (DYT1) – TOR1A common mutation c.904-906delGAG	GENE	A 9	5 weeks
Treacher-Collins Syndrome NGS Panel - full sequencing POLR1C + POLR1D + TCOF1	GENE	A A ⁹	6 weeks
Tuberous Sclerosis - full TSC1 + TSC2 gene sequencing	GENE	A A 9	5 weeks
Uni Parental Disomy (UPD) – parents and child – Specify chromosome	Specify type	A 9,12	5 days
Urinary Tract/Renal Cancer NGS Panel – full sequencing across 28 genes + deletions/duplications	Rec GENE	quires patient informed conse	ent 4 weeks
Usher Syndrome NGS Panel – full sequencing across 19 genes	GENE	A A 9	6 weeks
Very Long-Chain Acyl-CoA Dehydrogenase Deficiency – ACADVL sequencing	GENE	A 9	6 weeks
Von Hippel-Lindau Syndrome - VHL sequencing + deletions/duplications	GENE	A 9	8 weeks
Von Willebrands Disease – Type 2 (Ex28) Variant Analysis (VWF) (Known Genotype)	VW2A	(Whole blood 10ml) 40	6 weeks

TEST	CODE	SAMPLE REQS	TAT
Von Willebrands Disease – Type 2 (Ex28) Variant Analysis (VWF) (Unknown Genotype)	VW2A	(Whole blood 10ml) 40	12 weeks
Von Willebrands Disease – Type 2 WWD Variant Analysis (VWF) (Known Genotype)	2AVW	(Whole blood 10ml) 40	6 weeks
Von Willebrands Disease – Type 2 WWD Variant Analysis (VWF) (Unknown Genotype)	2AVW	(Whole blood 10ml) 40	12 weeks
Von Willebrands Disease – Type 2N Variant Analysis (VWF) (Known Genotype)	VW2N	(Whole blood 10ml) 40	6 weeks
Von Willebrands Disease – Type 2N Variant Analysis (VWF) (Unknown Genotype)	VW2N	(Whole blood 10ml) 40	12 weeks
Wolf-Hirschhorn Syndrome – BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/A (1) 9	5-15 days
Wolf-Hirschhorn Syndrome – BOBs only	PB0B	CVS/AF/(A) 9	5 days
Y chromosome microdeletions - AZFa + AZFb + AZFc + SRY	YDEL	A 9	5 days
Zellweger Syndrome NGS Panel – full sequencing across 12 genes	GENE	A A ⁹	6 weeks
Zygosity testing – comparative DNA profile	DNAC	(From each twin and both parents) 9	5 days

ARRAY CGH TESTING

Chromosome abnormalities can be associated with developmental delay, autism spectrum disorder, learning difficulties, dysmorphic features and other congenital abnormalities.

Array CGH can detect smaller genetic changes than is possible by conventional karyotyping, and can provide accurate information on the size and possible consequences of the gains (duplications) or losses (deletions) identified. Multiple studies have shown that Array CGH, when applied to appropriate patients, will detect up to three times more pathogenic chromosome imbalances than karyotyping due to its greater precision and sensitivity.

Array CGH testing is now considered to be the front line test for patients presenting with developmental delay (motor or growth), autism spectrum disorder, moderate to severe learning difficulties, dysmorphic features, with or without congenital abnormalities. Consortiums in the USA and many EU countries have adopted Array CGH as the front line test in this patient cohort.

Array CGH is now more frequently used for prenatal studies as an adjunct or replacement for conventional cytogenetic studies, particularly where structural fetal abnormalities are seen at ultrasound scan but also at a patient's or doctor's request. The technique may also be utilised as a follow up test to characterise anomalies detected by a previous study (e.g. an apparently balanced de novo rearrangement or marker chromosome).

When to use Array CGH

In postnatal cases, patients should present with one or more of the following:

- Mental retardation
- Autism/autism spectrum disorder
- Congenital malformations

- Developmental delay
- Dvsmorphic features

In prenatal cases, patients may present with:

 Abnormalities or increased nuchal translucency on ultrasound scan which may be associated with a chromosome imbalance.

Approximately 10-20% of results identify extra or missing DNA which may or may not be relevant to the clinical phenotype, and will require further family studies to assist with interpretation.

What can Array CGH detect?

Deletions and duplications with greater sensitivity than conventional karyotyping.

What does Array CGH not detect?

- Balanced chromosome rearrangements such as translocations or inversions.
 The chromosome location of duplications (this would require additional FISH testing).
- Low frequency mosaicism (<30% abnormal cells), some types of polyploidy like triploidy, Uniparental disomy (UPD) and Fragile X syndrome, imprinting defects, genetic diseases caused by point mutations or multifactorial inheritance.

Further information is provided by the UNIQUE website at www.rarechromo.org

TEST	CODE	SAMPLE REQS	TAT			
Postnatal array CGH	CGH	A (1) 9	10 days			
Blood from both parents may also be provided in case of follow up studies at no extra charge.						
TEST CODE SAMPLE REQS TA						
Prenatal array CGH	CGH	Amniotic fluid or CVS ⁹	10 days			

EDTA and heparin blood from both parents should be provided at the time of prenatal sampling, if possible, in case of follow up studies at no extra charge.

PAN-ETHNIC CARRIER SCREENING

The Fulgent Beacon carrier panel is a comprehensive genetic screen for people of all ethnic backgrounds. The panel analyses more than 400 genes, in which mutations may cause over 440 different recessive disorders. Testing includes Cystic Fibrosis, Sickle Cell Disease, Thalassemia and Spinal Muscular Atrophy. These conditions vary in morbidity, mortality and treatment.

The Beacon carrier screen can also be filtered to report only on diseases common to the Jewish population – such as Bloom Syndrome, Canavan Disease, Gaucher Syndrome and Tay-Sachs Disease.

Indications for use

- Pre-pregnancy screening for couples that wish to check if they are silent carriers for
 a disease that would have serious implications for the future health of any children.
- For patients who are concerned about a family history of a particular disease, where common mutation detections are very high – such as Tay-Sachs Disease.

The report comes with a synopsis of any diseases for which a mutations was found, including prognosis, treatment and mode of inheritance. It includes a risk assessment and recommendations for further testing. A full list of diseases covered by this test is available from the laboratory.





Male patients will not be screened for X-linked conditions. If an X-linked condition is suspected in a male patient please contact the laboratory or a genetics specialist about diagnostic testing for that particular condition.

Limitations

A normal result does not rule out the possibility that the patient carries a rare mutation not detectible by this particular assay. For this reason, this test is also not appropriate to use as a direct prenatal screen (both parents must be confirmed carriers for a particular disease before we can offer prenatal diagnosis). Screening is not designed to detect somatic mutations.

TEST	CODE	SAMPLE REQS	TAT
Pan-Ethnic Carrier Screen	GENE	A 9	4 weeks
Jewish Panel Carrier Screen	ASHJ	A 9	4 weeks

harmony®

NON-INVASIVE PRENATAL TESTING (NIPT)

The Harmony test is a cell-free DNA-based prenatal blood screen. It is being used in more than 100 countries around the world, and has been used to guide clinical care in over 1.4 million pregnancies. The test can be used in singleton, twin, and egg-donor pregnancies and has been validated for use in pregnant women aged 18 to 48. It can be administered as early as 10 weeks gestation.

The test can screen for:

- Trisomies 21, 18, and 13
- · Sex chromosome aneuploidy
- Monosomy X
- Fetal sex
- 22q11.2 deletion

Patient information

Non-invasive prenatal testing (NIPT) analyses cell-free DNA circulating in a pregnant mother's blood. It is used screen for Down syndrome (trisomy 21) and other common chromosomal conditions (trisomies 18 and 13). Options are also available to screen for X and Y chromosome conditions or for a deletion in chromosome 22011.2.

About the test

DNA from the fetus circulates in the mother's blood. Cell-free DNA (cfDNA) results from the natural breakdown of fetal cells (presumed to be mostly placental) and clears from the maternal system within hours of giving birth.

During a pregnancy, cfDNA can be tested to give the most accurate screening approach in estimating the risk of a fetus having a common chromosome condition sometimes called a trisomy. This occurs when there are three copies of a particular chromosome instead of the expected two. The test looks to detect the following conditions:

 Trisomy 21 is the most common trisomy at the time of birth. Also called Down syndrome, it is associated with moderate to severe intellectual disabilities and may also lead to digestive disease, congenital heart defects and other malformations.

- Trisomy 18 (Edwards syndrome) and Trisomy 13
 (Patau syndrome) are associated with a high rate
 of miscarriage. These babies are born with severe
 brain abnormalities and often have congenital heart
 defects as well as other birth defects. Most affected
 individuals die before or soon after birth, and very
 few survive bevond the first year of life.
- Sex chromosome conditions occur when there
 is a missing, extra, or incomplete copy of the X
 or Y chromosomes. The Harmony test with sex
 chromosome aneuploidy panel option can assess risk
 for XXX, XYY, XXYY, XXYY (Klinefelter syndrome), and
 a missing X chromosome in a girl (Turner syndrome).

Options are also available to look for Turner syndrome only (and not the other sex chromosome conditions), and/or to look for a deletion in chromosome 22q11.2. If the mother is interested in having this optional testing, she should talk with her healthcare provider to determine if it is right for her. This option is not available for twin pregnancies.

Risk

The testing is non-invasive: it involves taking a blood sample from the mother. The pregnancy is not put at risk of miscarriage, or from other adverse outcomes that are associated with invasive testing procedures such as amniocentesis.

Accuracy

A 'high probability' result is indicative of a high probability for a trisomy. In singleton pregnancies, the test identifies more than 99% of fetuses with trisomy 21, 97% of fetuses with trisomy 18, 94% of fetuses with trisomy 13, and 96% of fetuses with Turner syndrome. X and Y analysis provides >99% accuracy for fetal sex. Accuracy for detecting other sex chromosome anomalies varies by condition.

After the test, less than 1% of women need to have a CVS or an amniocentesis procedure.

The Harmony test is considered a prenatal screening test, not a diagnostic test. So if the test results show there is a high risk of the fetus having trisomy 21, 18, 13 or a sex chromosome condition, it does not mean that the fetus definitely has one of these conditions — although it is highly likely. For this reason, in the event of a 'high risk' (or positive) result, follow-up testing by an invasive procedure is recommended.

In the same way, if the test results show a 'low probability' of the fetus having trisomy 21, 18, 13 or a sex chromosome condition, it is unlikely that the fetus has one of these conditions. However, there is a very small risk that not all trisomic fetuses will be detected.

Who can have this test?

The Harmony test can be ordered by healthcare professionals for women with pregnancies of at least 10 weeks' gestational age. This test can be requested for any singleton or twin pregnancy, including those conceived naturally or by IVF using the patient's own egg or a donor egg. Note that, in twin pregnancies, sex chromosome (X and Y) analysis can determine fetal sex but not sex chromosome conditions. The Harmony test also does not assess risk for mosaicism, partial trisomies or translocations.

Results will be ready in approximately 3-5 days. Women still can have their 12-week scan for a detailed examination of the fetal anatomy, including measurement of nuchal translucency, nasal bone and other important factors. In this visit, patients can discuss the DNA and ultrasound results with their obstetricians.

On the basis of the NIPT result and the ultrasound findings, a patient can decide whether or not she wants to have an invasive procedure (for example, CVS or amniocentesis).

Repeat samples

There needs to be enough fetal DNA in the maternal blood to be able to provide a result. If there is insufficient fetal DNA in the sample (which occurs in 3% of cases), another blood sample from the mother may be required. This will be processed in the laboratory at no extra charge.

What is the process?

Once the mother has taken an independent personal decision that she wants to have the NIPT performed, she will be asked to sign a consent form and her blood sample can be taken from a vein in her arm.



Who carries out the analysis of the test?

Her sample and completed request form need to be sent to TDL Genetics, where the Harmony test is performed on the DNA extracted from her blood sample.

Will the mother need to have any other tests?

The Harmony test does not provide information on mosaicism, partial trisomies or translocations, or other rare chromosomal abnormalities. If the ultrasound scan shows a high nuchal translucency or other major physical defects such as brain abnormalities, heart abnormalities, the risk for some rare chromosomal defects may be high. In such cases, the mother may choose to have a CVS or an amniocentesis.

The non-invasive prenatal test does not provide information on other physical defects such as spina bifida, or information on fetal growth. It is therefore advisable that the mother has all the usual ultrasound scans during her pregnancy.

Sample stability

Samples must be taken in special tubes provided by the laboratory. These samples must not be refrigerated, but stored at ambient temperature protected by the gel packs provided. The lab must receive the samples within 7 days to allow testing to proceed.

TEST	CODE	SAMPLE REQS	TAT
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood	NIPT	Two 10ml tubes of maternal blood – special tubes provided by the laboratory	3-5 days
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood including 22g11.2 del	NIPQ	Two 10ml tubes of maternal blood – special tubes provided by the laboratory	3-5 days

220 DELETION SCREENING

TDL Genetics will include 22q11.2 deletion, if requested as an additional option in the Harmony prenatal test menu. 22q11.2 deletion is the underlying cause of conditions described as DiGeorge syndrome and velocardiofacial syndrome (VCFS).

Why is 22q11.2 being included in the Harmony test (and not other microdeletion syndromes)?

- The 22q11.2 deletion has been carefully chosen as the only clinically relevant microdeletion syndrome to include with NIPT.
- 22q11.2 deletion is the most common chromosomal microdeletion, occurring in up to 1 in 1000 pregnancies.
- Other microdeletion syndromes have a much lower incidence and would increase the false positive rate of the test.

What is the performance of the 22q.11.2 addition?

- Inclusion of 22q11.2 deletion is aimed at a screening population, the test has been shown to identify 75% of pregnancies with a 22q11.2 deletion. Therefore, pregnancies with a known higher risk of 22q11.2 deletion, whether ascertained through ultrasound scan or family history should consider invasive diagnostic testing as this test will not identify 1 in 4 (25%) of cases.
- There is a false-positive rate of up to 0.5% associated with the 22q11.2 part of the Harmony test.
 This means that in 200 women with a pregnancy unaffected by 22q11.2 deletion 199 will receive a low probability result and 1 will receive a high probability result.

What is the benefit of finding out that a pregnancy has a high probability of a 22q11.2 deletion?

- Early screening and diagnosis of 22q11.2 deletions affects pregnancy management.
- Following confirmatory diagnosis of 22q.11.2 deletion the following may be recommended:
 - Level II ultrasound with fetal echocardiogram to evaluate for anomalies such as congenital heart defect and cleft palate.
 - Screening for and coordinated management of associated conditions.
 - · Delivery at a tertiary care centre.

How do I request the 22q11.2 additional test option?

- Our updated request forms include the option of selecting 22q11.2 deletion. Tick this box if this is required.
- The 22q11.2 deletion cannot be requested in twin pregnancies or in pregnancies where the mother has a 22q11.2 duplication or deletion.
- There is an additional charge for 22q11.2 deletion.
- When discussing the informed consent for the Harmony test with your patient you must ensure they have read all the information on the reverse of the request form including the additional section headed 'What are the limitations of the Harmony prenatal test for 22q11.2?'

If 22q11.2 deletion is detected, we will undertake a confirmatory aCGH (microarray) on a CVS or Amnio, if undertaken, at no additional charge.

If you would like any further information about the 22q11.2 test please contact us at TDL Genetics by phone 020 7307 7409 or email harmony@tdlgenetics.com



MALE GENETIC REPRODUCTIVE PROFILE

Chromosome Analysis Y-Chromosome Microdeletions Cystic Fibrosis Carrier Screen (139 common mutations) PolyT (5T,7T,9T) if clinically indicated



GRP



THROMBOTIC RISK PROFILE

FBC Coagulation Profile Antithrombin III Factor V Leiden

Common Mutation Factor II Prothrombin Common Mutation MTHFR Common Variants Lupus Anticoagulant Protein C Free Protein S Aa Anticardiolipin Abs

TAT 5 DAYS

PR_{OP}









PRE-TRAVEL (DVT) SCREEN

FBC Anticardiolipin Antibodies Factor II Prothrombin Mutation (G20210A) Factor V Leiden Mutation (G1691A)

5 DAYS

DVT1



PAN-ETHNIC CARRIER SCREEN

2000+ Common Mutations across 250+ Diseases*

includes 20+ X-linked Diseases and 60+ Jewish Panel Diseases



GENE

A 9

60+ Jewish Panel Diseases*

JEWISH CARRIER SCREEN

uses the same technology as the Pan-Ethnic Carrier Screen, but filters results to only report on mutations commonly seen in the Jewish Population



ASHJ



Disease list available from the Laboratory

IRON OVERLOAD PROFILE

Iron Total Iron Binding Capacity Ferritin Haemochromatosis C282Y, H63D

10P

A A B ⁹

RECURRENT MISCARRIAGE **PROFILE (FEMALE)**

FBC Coagulation Profile Antithrombin III Factor V Leiden

Common Mutation Factor II Prothrombin Common Mutation MTHFR Common Variants Fibrinogen Lupus Anticoagulant Protein C Free Protein S Ag Anticardiolipin Abs Chromosome Analysis

Please request Partner's Chromosome Analysis using a separate request form.



RMP











PRENATAL DIAGNOSIS (BOBS + CULTURE)

Rapid Aneuploidy Diagnosis for all Chromosomes + Common Microdeletion Syndromes by BOBs Analysis TAT

Chromosome Analysis (Karyotype)

DAYS 15 DAYS

3-5

ABK or CBK

AF/CVS9

PRODUCTS OF CONCEPTION (BOBS + CULTURE)

Rapid Aneuploidy Diagnosis for all Chromosomes by BOBs Analysis

Chromosome Analysis (Karyotype)

25 DAYS

DAYS

PBK

Placental sample 1,9

In-vivo tests

These tests, ideally, must be carried out by appointment. Please telephone 020 7307 7383 for details, information for patient preparation, and appointment times. Sample taking fees for Extended tests are charged at $\pounds 98.00$ per visit.

EXTENDED TESTING

- 50g liquid glucose is consumed for the glucose challenge test/Mini-GTT.
- 75g liquid glucose is consumed for all other glucose tests.
- Each sample tube must be labelled with time of collection.

GLUCOSE TOLERANCE TESTS				
TEST	CODE	SAMPLE REQS	COLLECTION TIME (MINUTES POST-GLUCOSE)	TAT
Glucose Challenge Test/Mini-GTT	RBGM	G	1 at 60 mins (50gm glucose)	1 day
Glucose Tolerance Test/OGTT	GTT	3x © 3x RU	1 each at 0, 60 and 120 mins (75gm glucose load)	1 day
Glucose Tolerance with Insulin	GTTI	3x 3x 3x 3x 8U	1 each at 0, 60 and 120 mins	1 day
Glucose Tolerance with Growth Hormone	GTT+GHDF	3x 🕒 35 3x 🕒 3x RU	1 each at 0, 60 and 120 mins	1 day
Glucose Tolerance Test (Short)	GTTS	2x G 2x RU	1 each at 0 and 120 mins	1 day
Glucose Tolerance Test (Extended)	GTTE	5x G 5x RU	1 each at 0, 30, 60, 90 and 120 mins	1 day
Glucose Tolerance Test (Extended Plus)	GTTX	7x © 7x RU	1 each at 0, 30, 60, 90, 120, 150 and 180 mins	1 day

EXTENDED TESTS				
TEST	CODE	SAMPLE REQS	COLLECTION TIME (MINUTES POST-GLUCOSE)	TAT
Lactose Tolerance Test	LTT	By appointment only	Contact 020 7025 7997 (Phlebotomy)	1 day
Synacthen Stimulation Test	SYNA	By appointment only	Contact 020 7025 7997 (Phlebotomy)	1 day

ANTIBIOTIC ASSAYS				
TEST	CODE	SAMPLE REQS	TAT	
Amikacin Level (State dose)	AMIK	B ⁴	4 hours	
Gentamicin Assay	GENT	B 4	4 hours	
Metronidazole Level	METR	B 4	7 days	
Teicoplanin Assay	TEIC	B	5 days	
Tobramycin Assay (Provide Clinical Details)	TOBR	3	3 days	
Vancomycin Hydrochloride	VANC	B	4 hours	

Therapeutic drug assays

There are three different collection times for Therapeutic Drug Monitoring:

TROUGH LEVEL Blood should be collected just before the next dose. Trough Levels

check that the appropriate drug concentration is being maintained.

PEAK LEVELS Sample collection time is dependent on specific drug type and method of

administration. Peak levels check that the drug level is not in the toxic range.

SUSPECTED TOXICITY Blood can be collected any time.

All collections should have the following noted on the request form:

Dosage schedule including the amount and frequency and time of the last dose

· Time of specimen collection

Clinical status of patient (e.g. routine, suspected toxicity)

· Name(s) of other drugs being taken by the patient

TEST	CODE	SAMPLE REQS	TAT
Amitriptyline	AMTR	A 4	5 days
Anafranil (Clomipramine)	CHLO	A	7 days
Carbamazepine (Tegretol)	CARB	В	4 hours
Clobazam	CLOB	A	5 days
Clomipramine (Anafranil)	CHLO	A	7 days
Clonazepam	CLON	A	7 days
Diazepam (Valium)	DIAZ	A	7 days
Digoxin	DIGO	В	4 hours
Epanutin (Phenytoin)	PHEN	В	4 hours
Erythropoietin	ERY	В	4 days
Ethosuximide	ETH0	A	7 days
FK506 (Tacrolimus/Prograf)	FK5	A 4	1-2 days
Flecainide (Tambocor)	FLEC	A	5 days
Fluoxetine (Prozac)	PROZ	A 4	5 days
Gabapentin	GABA	B 4	5 days
Imipramine	IMIP	A 4	4 days
Lamotrigine	LAMO	B 4	5 days
Levetiracetam (Keppra)	LEVE	B 4	3 days
Lithium (take 12 hours after dose)	LITH	В	4 hours
Lorazepam	LORA	A 4	10 days
Methotrexate	METX	В	2 days
Mycophenolic Acid (Cellcept)	MYCP	A	5 days
Mysoline (Primidone)	PRIM	B 4	3 days
Olanzapine	OLAN	A 4	5 days
Paracetamol	PARA	В	4 hours
Phenobarbitone	PHB	В	4 hours
Phenytoin (Epanutin)	PHEN	В	4 hours
Primidone (Mysoline)	PRIM	B 4	3 days

Therapeutic drug assays

TEST	CODE	SAMPLE REQS	TAT
Propanalol	PR0	B 4	7 days
Risperidone	RISP	A 4	7 days
Sinequan (Doxepin)	DOXE	A	10 days
Sirolimus	SIR0	A	3 days
Streptomycin Levels	STRM	(5 days
Sulpiride	SULP	B 4	4 days
Tacrolimus/Prograf (FK506)	FK5	A 4	1-2 days
Tegretol (Carbamazepine)	CARB	B	4 hours
Temazepam	TEMA	B 4	4 days
Theophylline	THE0	B	4 hours
Topiramate (Topamax)	TOPI	B 4	4 days
Trimipramine	TRIM	A	5 days
Valium (Diazepam)	DIAZ	A	7 days
Valproic Acid (Epilim)	VALP	В	4 hours
Vigabatrin (Sabril)	VIGA	A	10 days

Allergy, Asthma and Autoimmune diseases are increasing around the world, especially in industrialised countries and affect all ages. Since every country has their own dietary habits there are noteworthy differences in the allergens causing food allergy.



UK PROFILE

Total IgE plus:

Food Mix inc.

Cod, Cow's Milk, Egg White, Soya Bean, Peanut, Wheat

Grass Mix inc.

Cocksfoot, Meadow Fescue, Meadow, Rye, Timothy

Fish: Cod

Cat Dander Cladosporium Herbarum Dog Dander

House Dust Mite

Latex

B



ALUK

MEDITERRANEAN PROFILE

Total IgE plus:

A. alternata

Cat Epithelium and Dander Cow's Milk

Egg White

House Dust Mite

(Dermatophagoides

pteronyssinus and

Dermatophagoides farinae)

Olive

Peanut

Rye-grass Timothy Grass

> 2 DAYS

ALMD

B

MIDDLE EAST PROFILE

Total IgE plus:

Food Mix inc.

Cod, Cow's Milk, Egg White, Soya Bean, Peanut, Wheat

Fish: Cod

Dust Mix inc.

House Dust Mite,

Dermatophagoides

pteronyssinus,

Dermatophagoides farinae,

Blatella germanica



ALME

B



TEST	CODE	SAMPLE REQS	TAT
Allergy – Individual Allergens See list on page 137	ALLE	B	2 days
Total IgE	IGE	В	1 day
Allergy Profile (Mediterranean)	ALMD	В	2 days
Allergy Profile (Middle East)	ALME	B	2 days
Allergy Profile (UK)	ALUK	В	2 days
Allergy Profile 1 (Food & Inhalants)	1A	BB	2 days
Allergy Profile 2 (Inhalants)	2A	В	2 days
Allergy Profile 3 (Food)	3A	В	2 days
Allergy Profile 4 (Nuts & Seeds)	4A	В	2 days
Allergy Profile 5 (Children's Panel)	5A	В	2 days
Allergy Profile 6 (Shellfish)	6A	В	2 days
Allergy Profile 7 (Finfish)	7A	В	2 days
Allergy Profile 8 (Cereal – singles)	8A	В	2 days
Allergy Profile 9 (Antibiotics)	9A	В	2 days
Allergy Profile 10 (Insects)	10A	B	2 days
Allergy Profile 11 (Combined Shellfish/Finfish)	11A	В	2 days
Allergy Profile 12 (Milk & Milk Proteins)	12A	В	2 days
Allergy Profile 13 (Stone fruit/Rosaceae family)	13A	В	2 days
Eczema Provoking Profile	ALEC	В	2 days
Gluten Allergy Profile	GLUT	ABB	10 days
Rhinitis Provoking Profile	ALRN	В	2 days
Tryptase	STRY	В	2 days
Allergen Component Profiles See page 141			
Histamine Releasing Urticaria Test	CURT	В	10-14 days
ISAC Panel	ISAC	В	3 days
Prealbumin	PALB	В	3 days

(9 Allergens)				
Total IgE with individual IgE allergens for:	Milk Peanut Soya Be	ean		
Cat Dander Egg White Egg Yolk Fish Mix	Wheat			
Hazelnut House Dust Mite		TAT 2 Days		
		ALEC		

ECZEMA PROVOKING PROFILE

RHINITIS PROVOKING PROFILE (10 Allergens)				
Total IgE with individual IgE allergens for: Birch Cat Dander Dog Dander Egg White	Milk Nettle Peanut Timothy	/ Grass		
Egg Yolk House Dust Mite		2 DAYS		

GLUTEN ALLERGY PROFILE
Gluten single IgE Allergen Endomysial Antibodies IgA Deamidated Gliadin IgG Antibodies Tissue Transglutaminase IgA HLA DQ2/DQ8 Total IgA TAT 10 DAYS GLUT



ALRN

IgE ALLERGY PROFILE 1 (Food and inhalants) Total IgE with individual Tree Mix, inc. IgE allergens for: Box Elder Common Silverbirch Grass Mix. inc. Hazel Cocksfoot 0ak Meadow Fescue London Plane Meadow Maple Rve Sycamore Timothy Single Allergens (19) Weed Mix, inc. Beef Common Ragweed Bermuda Grass Giant Ragweed Cat Dander Western Ragweed Clam Dust Mix, inc. Common Silver Birch Blatella germanica Cow's Milk Dermatophagoides Crab pteronyssinus Dog Dander Dermatophagoides Egg White farinae Eaa Yolk Hollister-Stier Labs Fish (Cod) Mould Mix, inc. Hazel Nut A. alternata Horse Dander Aspergillus fumigatus Latex Candida albicans Nettle Cladosporium herbarum Peanut Helminthosporium Shrimp/Prawn halodes Soya Bean 2 DAYS Penicillium notatum Wheat 1A BB **IgE ALLERGY PROFILE 2** (Inhalants) Total IgE with individual Common Ragweed IgE allergens for: Derma farinae

IgE ALLERGY PROFILE 3 (Food) Total IgE with individual IgE allergens for: Codfish Cow's Milk Egg White TAT Soya Wheat AAA

₿

Total IgE with individual Pecan	(Nuts and Seeds)			
IgE allergens for: Almond Pistachio Brazil Nut Cashew Hazel Nut Macadamia Nut Peanut Pine Nut Pistachio Poppy Seed Pumpkin Seed Pumpkin Seed Sesame Seed Sunflower Seed Walnut	TAT 2 DAYS			

InF ALLERGY PROFILE 4

B

	GY PROFILE 5 en's Panel)	
Total IgE with individual	Mite, Pteronyssinus	
IgE allergens for:	Peanut	

IgE allergens for:

Cat Dander

Cow's Milk

Egg White

Egg Yolk

Peanut

Soya Bean

Timothy Grass

Wheat Flour

TAT 2 DAYS

DAYS 5A

B

TAT 2 DAYS

2A

IMMUNOCAP ISAC PANEL

Simultaneous measurement in a single test of specific antibodies to more than one hundred allergen components from more than 50 preselected allergen sources.

ISAC

B

Dog Dander

House Dust Mite

Horse Dander

Timothy Grass

Alternaria

Aspergillus

Birch Pollen

Cat Dander

B

Cladosporium



Allergy

Allergens, when requested individually are priced as single tests, sample 1 x 🔒 (up to 5 allergens). Protein allergens are manufactured by Thermofisher (Phadia) and are IgE specific.

GRASS POLLENS Bahia grass g17 Barley q201

Bermuda grass g2 Brome grass q11 Canary grass g71

Cocksfoot a3 Common reed q7 Cultivated oat q14 Cultivated rye g12 Cultivated wheat q15

Johnson grass q10 Maize, Corn g202 Meadow fescue q4 Meadow foxtail q16 Meadow grass,

Kentucky blue q8 Redtop, Bentgrass q9

Rye-grass g5 Sweet vernal grass q1 Timothy grass g6

Velvet grass g13 Wild rye grass q70

WEED POLLENS

Alfalfa w45 Camomile w206 Careless weed w82 Cocklebur w13

Common pigweed w14 Common ragweed w1

Dandelion w8 Dog fennel w46 False raqweed w4 Firebush (Kochia) w17 Giant ragweed w3 Goldenrod w12 Goosefoot.

Lamb's quarters w10 Japanese Hop w22 Lupin w207

Marguerite, Ox-eye daisy w7

Mugwort w6 Nettle w20

Parietaria officinalis w19 Parietaria iudaica w21

Plantain (English), Ribwort w9

Rape w203

Rough marshelder w16

Saltwort (prickly),

Russian thistle w11 Scale, Lenscale w15

Sheep sorrel w18 Sunflower w204

Wall pellitory w19 Wall pellitory w21

Western ragweed w2 Wormwood w5 Yellow dock w23

TREE POLLENS

Acacia t19

American beech t5 Australian pine t73 Bald cypress t37 Bayberry t56 Box-elder t1 Cedar t212 Cedar elm t45

Common silver birch t3

Cottonwood t14 Cypress t222 Date t214 Douglas fir t207

Chestnut t206

Elder t205 Flm t8

Eucalyptus, Gum-tree t18 European ash t25 Grev alder t2 Hackberry t44 Hazel t4 Horn beam t209

Horse chestnut t203 Italian/Mediterranean/

Funeral cypress t23 Japanese cedar t17

Linden t208

Maple leaf sycamore, London plane t11

Melaleuca, Cajeput-tree t21

Mesquite t20

Mountain iuniper t6

Mulberry t70 0ak t7

Oil Palm t223 Olive t9

Paloverde t219 Pecan. Hickory t22

Peppertree t217 Pine t213

Privet t210 Queen palm t72

Red cedar t57 Red mulberry t71

Scotch broom t55 Spruce t201

Sweet gum t211 Walnut t10

White ash t15 White hickory t41

White pine t16 Willow t12

Virginia live oak t218

MICROORGANISMS

Acremonium kiliense m202 Alternaria alternata m6 Aspergillus flavus m228 Aspergillus fumigatus m3 Aspergillus niger m207 Asperaillus terreus m36 Aureobasidium pullulans m12

Botrytis cinerea m7 Candida albicans m5

Chaetomium alobosum m208 Cladosporium herbarum m2

Curvularia lunata m16 Epicoccum purpurascens m14

Fusarium proliferatum (F. moniliforme) m9

Setomelanomma rostrata

(Helminthosporium halodes) m8

Malassezia spp. m227 Mucor racemosus m4 Penicillium chrysogenum

(P. notatum) m1

Penicillium glabrum m209

Allergy

Phoma betae m13 Rhizopus nigricans m11 Staphylococcal enterotoxin A m80 Staphylococcal enterotoxin B m81 Staphylococcal enterotoxin C m223 Staphylococcal enterotoxin TSST m226 Stemphylium herbarum (S. botryosum) m10 Tilletia tritici m201 Trichoderma viride m15 Trichophyton mentagrophytes var. qoetzii m210 Trichophyton mentagrophytes var. interdiaitale m211 Trichophyton rubrum m205 Ulocladium chartarum m204

EPIDERMALS AND

ANIMAL PROTEINS Budgerigar droppings e77 Budgerigar feathers e78 Camel dander u328 Canary bird droppings e200 Canary bird feathers e201 Cat dander e1 Chicken droppings e218 Chicken feathers e85 Chicken, serum proteins e219 Chinchilla epithelium e208 Cow dander e4 Deer epithelium e216 Dog dander e5 Duck feathers e86 Ferret epithelium e217 Finch feathers e214 Fox epithelium e210 Gerbil epithelium e209 Goat epithelium e80 Goose feathers e70 Guinea pig epithelium e6 Hamster epithelium e84 Horse dander e3

Mink epithelium e203

Mouse epithelium e71

serum proteins and urine

Mouse serum proteins e76

Mouse epithelium,

proteins e88

Mouse urine proteins e72 Parakeet droppings e197 Parakeet serum e198 Parrot feathers e213 Pigeon droppings e7 Pigeon feathers e215 Rabbit epithelium e82 Rabbit, serum proteins e206 Rabbit, urine proteins e211 Rat epithelium e73 Rat epithelium, serum proteins and urine proteins e87 Rat serum proteins e75 Rat urine proteins e74 Reindeer epithelium e202 Sheep epithelium e81 Swine epithelium e83 Turkey feathers e89

Acarus siro (Storage mite) d70 Blomia tropicalis (House dust mite) d201 Dermatophagoides farinae (House dust mite) d2 Dermatophagoides microceras (House dust mite) d3 Dermatophagoides pteronyssinus (House dust mite) d1 Euroalyphus maynei (House dust mite) d74 Glycyphagus domesticus (Storage mite) d73 Lepidoglyphus destructor (Storage mite) d71 Tyrophagus putrescentiae (Storage mite) d72

ALLERGEN COMPONENTS

See page 141 for Component **Testing and Component** Allergen Profiles

HOUSE DUST

Greer Labs., Inc. h1 Hollister-Stier Labs. h2

INSECTS

Berlin beetle i76 Blood worm i73 Cockroach, American i206 Cockroach, German i6 Cockroach, Oriental i207 Fire ant i70 Grain weevil i202 Green nimitti i72 Horse flv i204 Mediterranean flour moth i203 Mosquito i71 Moth i8

VENOMS

Bumblebee i205 Common wasp (Yellow jacket i3 European Paper Wasp i77 European hornet i75 Honey bee i1 Paper wasp i4 White-faced hornet i2 Yellow hornet i5

DRUGS

Amoxicilloyl c6 Ampicillovl c5 Cefaclor c7 Chlorhexidine c8 Gelatin bovine c74 Insulin human c73 Penicilloyl G c1 PenicillovI V c2 Pholcodine c261 Morphine c260 Suxamethonium (succinylcholine) c202

OCCUPATIONAL Bougainvillea k214

Cotton seed k83 Ethylene oxide k78 Ficus k81 Formaldehyde/Formalin k80 Green coffee bean k70 Hexahydrophtalic anhydrid k209 Isocyanate HDI (Hexamethylene diisocyanate) k77 Isocyanate MDI (Diphenylmethane diisocyanate) k76

Alleray

Isocvanate TDI (Toluene diisocyanate) k75 Ispaghula k72 Latex k82 Methyltetrahydrophtalic

anhydrid k211 Phthalic anhydride k79

Silk k74 Silk waste k73 Sunflower seed k84

Trimellitic anhydride, TMA k86

PARASITES

Anisakis p4 Ascaris p1 Echinococcus p2

MISCELLANEOUS

Cotton, crude fibers o1 Mealworm o211

MUXF3 CCD. Bromelain o214

Seminal fluid o70 Streptavidin o212

FOODS - FRUITS & VEGETABLES

Apple f49 Apricot f237 Asparagus f261

Aubergine, eggplant f262

Avocado f96 Bamboo shoot f51 Banana f92

Beetroot f319 Blackberry f211 Blueberry f288 Broccoli f260 Brussel sprouts f217

Carrot f31 Cauliflower f291 Celery f85 Cherry f242

Cabbage f216

Cucumber f244 Date f289

Fennel, fresh f276 Fia f328

Garlic f47 Grape f259 Grapefruit f209 Guava f292

Jack fruit f318 Juiube f336 Kiwi f84

Lemon f208 Lettuce f215 Lime f306

Mandarin (tangerine, clementine, satsumas) f302

Mango f91 Melon f87

Pear f94

Olive (black, fresh) f342

Onion f48 Orange f33 Papaya f293 Passion fruit f294 Peach f95

Persimon (kaki fruit, sharon) f301

Pineapple f210 Plum f255 Potato f35 Pumpkin f225 Raspberry f343 Red currant f322

Spinach f214 Strawberry f44 Sweet potato f54 Tomato f25

FOODS - SEED. **LEGUMES & NUTS**

Watermelon f329

Almond f20 Barlev f6 Blue vetch f310 Brazil nut f18 Buckwheat f11 Cashew nut f202 Chick pea f309 Coconut f36

Common millet f55 Fenugreek f305 Foxtail millet f56

Green bean f315 Hazel nut f17 Lentil f235 Lima bean f182

Gluten f79

Linseed f333 Lupin seed f335 Macadamia nut f345 Maize. Corn f8

Oat f7 Pea f12 Peanut f13

Pecan nut f201

Pine nut. pignoles f253

Pistachio f203 Poppy seed f224 Pumpkin seed f226 Quinoa f347 Rape seed f316 Red kidney bean f287

Rice f9 Rye f5

> Sesame seed f10 Sovbean f14 Spelt wheat f124 Sugar-beet seed f227 Sweet chestnut f299

Walnut f256 Wheat f4 White bean f15

FOODS - SPICES

Allspice f339 Anise f271 Basil f269 Bay leaf f278 Black pepper f280 Caraway f265 Cardamon f267 Chilipepper f279 Clove f268 Coriander f317

Curry (Santa Maria) f281

Dill f277 Ginger f270

Green pepper (unripe seed) f263

Lovage f275 Mace f266 Marioram f274 Mint f332 Mustard f89 Oregano f283

Paprika. Sweet pepper f218

Parsley f86 Tarragon f272 Thyme f273 Vanilla f234

Allergy

FOODS - FISH, SHELLFISH & MOLLUSCS

Abalone f346

Anchovy f313

Blue mussel f37

Cat fish f369

Chub mackerel f50

Clam f207

Crab f23

Crayfish f320

Eel f264

Fish (cod) f3

Grouper f410

Gulf flounder f147

Haddock f42

Hake f307

Halibut f303

Herring f205

Jack mackerel, Scad f60

Langust (spiny lobster) f304

Lobster f80

Mackerel f206

Megrim f311

Octopus f59

Orange roughy f412

Oyster f290 Pacific squid f58

Plaice f254

Pollock f413

Red snapper f381

Salmon f41

Sardine (Pilchard) f308

Sardine, Japanese Pilchard f61

Scallop f338

Shrimp f24

Snail f314

Sole f337

Squid f258

Swordfish f312

Tilapia f414

Trout f204

Tuna f40

Walleye pike f415

Whitefish (Inconnu) f384

FOODS - EGG & FOWL

Chicken f83

Egg f245

Egg white f1

Egg yolk f75

Turkey meat f284

FOODS - MEAT

Beef f27

Elk/moose meat f285

Mutton f88

Pork f26

Rabbit f213

FOODS - MILK

Cheese, cheddar type f81

Cheese, mold type f82

Cow's whey f236

Goat milk f300

Mare's milk f286

Milk f2

Milk, boiled f231

Sheep milk f325

Sheep whey f326

FOODS - ADDITIVES

Carob (E410) f296

Guar, guar gum (E412) f246

Gum arabic (E414) f297

Tragacanth (E413) f298

Cochineal extract (Carmine red) (E120) f340

FOODS - MISCELLANEOUS

Cacao f93

Coffee f221

Honey f247

Hop (fruit cone) f324

Malt f90

Mushroom (champignon) f212

Tea f222

Yeast f45

Allergy

COMPONENT TESTING

Using ImmunoCAP Allergen Components can help refine the understanding of sensitisation, by assessing a person's sensitisation pattern at the molecular level. When used in conjunction with traditional extract-based IgE testing, these provide information at the individual component level.

For more information, please contact the Immunology Department on 020 7025 7917.

TEST	CODE	SAMPLE REQS	TAT
Alpha Gal Components (related to red meat)	ZZ37	B	2 days
Alternaria Components	ZZ1	B	2 days
Apple Components	ZZ36	В	2 days
Aspergillus Components	ZZ2	В	2 days
Birch Components	ZZ3	В	2 days
Brazil Components	ZZ4	В	2 days
Cashew Components	ZZ35	В	2 days
Cat Components	ZZ5	В	2 days
Celery Components	ZZ6	В	2 days
Cow's Milk Components	ZZ7	В	2 days
Dog Components	ZZ8	В	2 days
Egg Components	ZZ9	В	2 days
Fish Components	ZZ10	В	2 days
Hazelnut Components	ZZ11	В	2 days
House Dust Mite Components	ZZ12	В	2 days
Kiwi Components	ZZ32	В	2 days
Latex Components	ZZ13	В	2 days
Olive Components	ZZ14	В	2 days
Peach Components	ZZ15	В	2 days
Peanut Components	ZZ16	В	2 days
Shrimp Components	ZZ17	В	2 days
Soybean Components	ZZ18	В	2 days
Timothy Grass Components	ZZ19	В	2 days
Venom Components	ZZ33	В	2 days
Wall Pellitory Components	ZZ20	В	2 days
Walnut Components	ZZ34	В	2 days
Wheat Components	ZZ21	В	2 days
PR-10 Proteins	ZZ22	B	2 days
Lipid Transfer Proteins	ZZ23	B	2 days
Profilins	ZZ24	B	2 days
Polcalcins	ZZ25	<u> </u>	2 days
Seed Storage Proteins	ZZ26	B	2 days
Glycan Determinants	ZZ27	<u> </u>	2 days
Lipocalins	ZZ28	<u> </u>	2 days
Parvalbumins	ZZ29	<u> </u>	2 days
Serum Albumins	ZZ30	<u> </u>	2 days
Tropomyosins	ZZ31	<u> </u>	2 days
	2201		∠ days

^{*} Please quote the ZZ Code when requesting Allergen Component Profiles.

Vitamins, Nutrition and Lifestyle

VITAMIN B PROFILE **VITAMIN PROFILE 1** MINERAL SCREEN Vitamin B1 Vitamin A Calcium Vitamin B2 Beta Carotene Magnesium Vitamin B3 Vitamin B1 Zinc Vitamin B6 Vitamin B2 Iron Vitamin B9 (red cell) Vitamin B6 Copper Vitamin B12 (Active) Vitamin C (Frozen) Chromium Vitamin F Manganese TAT TAT 5 DAYS 5 DAYS 5 DAYS **VBP** VITS MINF BR AAB **A B B** ⁷ **MINERAL SCREEN** SPORTS/PERFORMANCE PROFILE **VITAMIN PROFILE 2** - WHOLE BLOOD FBC/ESR Vitamin A Whole Blood Potassium **Biochemistry Profile** Beta Carotene Whole Blood Magnesium HDL/LDL Vitamin B1 Whole Blood Calcium Vitamin B2 Ferritin Whole Blood Manganese C-Reactive Protein Vitamin B3 Whole Blood Zinc Omega 3/Omega 6 Vitamin B6 Whole Blood Copper **Total Antioxidant Status** Vitamin B9 (Red Cell Folate) Whole Blood Selenium Mineral Screen Vitamin B12 (Active) Whole Blood Chromium Vitamin B9 (Red Cell Folate) Vitamin C (Frozen) Vitamin B12 (Active) Vitamin D (25-0H) Vitamin E **5** TAT TAT 5 5 DAYS DAYS DAYS **SPOR** VIT2 **RMIN** 00 **AAABBBB A A B B** ^{7,13}

Patients taking supplements may be advised to stop medication prior to testing.

Vitamins, Nutrition and Lifestyle

TEST	CODE	SAMPLE REQS	TAT
Ceruloplasmin	CERU	В	1 day
Copper (Serum)	COPP	В	5 days
Essential Fatty Acid Profile (Red Cell)	EFAR	A 4	10 days
Folate (Red Cell)	RBCF	A	2 days
Glutathione (Red Cell)	GLUR	(1) 5	5 days
Glutathione Peroxidase	GLPX	•	5 days
Lutein	LUTE	B 13	2 weeks
Lycopene	LYC0	В	2 weeks
Magnesium (Whole blood)	RCMG	A or (1)	4 days
Mineral Screen	MINE	BK	5 days
Mineral Screen (Whole blood)	RMIN	00	5 days
Mineral Screen and Industrial Heavy Metal Screen (Trace Metals)	TRAC	A B () (7-10 days
Omega 3/Omega 6 (see page 145)	OMG3	A 4	4 days
Selenium (Serum)	SELE	В	4 days
Selenium (Whole Blood)	SELR	A or (1)	4 days
Sports/Performance Profile	SP0R	AAABBBBGK ⁴	5 days
Xylose Tolerance Test	XTT	J ¹	7 days
Zinc (Serum/Plasma)	ZINC	K	1 day
Zinc (Urine)	URZN	CU	5 days
Zinc (Whole Blood)	RBCZ	A or (1)	5 days

This provides valuable diagnostic information, which can be assimilated with other diagnostic markers in the assessment of nutritional status, and compares favourably to semi-quantitative functional assays. For fertility and lifestyle refer to page 56.

TEST	CODE	SAMPLE REQS	TAT
1,25 Vitamin D	D3	B	5-8 days
Beta Carotene	CAR0	B	5 days
Biotin	BIOS	B	1 week
Carotenes	CAR0	B 13	5 days
Vitamin A (Retinol)	VITA	B	5 days
Vitamin B (Functional)	FUNC	A A or H ¹³	5 days
Vitamin B Profile	VBP	AAB	5 days
Vitamin B1 (Thiamine)	VIT1	A	5 days
Vitamin B2 (Riboflavin)	VIB2	A	5 days
Vitamin B3 (Nicotinamide)	VIB3	B	5 days
Vitamin B5 (Pantothenic Acid)	VB5S	B	5 days
Vitamin B6 (Pyridoxine)	VITB	A	5 days
Vitamin B8 (Biotin)	BIOS	B	5 days
Vitamin B9 (Folic acid) – Red cell	RBCF	A	2 days
Vitamin B9 (Folic acid) – Serum	FOLA	B	1 day
Vitamin B12 (Active)	B12	B	1 day
Vitamin B12 (Active)/Red Cell Folate	B12F	A B	2 days

Vitamins, Nutrition and Lifestyle

TEST	CODE	SAMPLE REQS	TAT
Vitamin C (Active)	VITC	(Frozen) ⁷	5 days
Vitamin D (1, 25 Dihydroxy)	D3	B	5-8 days
Vitamin D (25-OH)	VITD	B	4 hours
Vitamin E (Alpha Tocopherol)	VITE	B	5 days
Vitamin K (Nutritional)	VKN	B 13	5 days
Vitamin Profile 1	VITS	A B B ⁷	5 days
Vitamin Profile 2	VIT2	A A B B 7,13	5 days

Omega3/6

Essential Red Cell Fatty Acids Omega-3/Omega-6

Omega-3 is the name given to a family of polyunsaturated fatty acids, which the body needs but cannot manufacture itself. Omega-3 fats are used as the building blocks for fat derived hormones such as prostaglandins and leukotrienes. The hormones with an Omega-3 base tend to reduce inflammation, while those that have an Omega-6 base increase inflammation. In the cell membrane the competition between these two essential fats has a direct bearing on the type of local hormone produced and the level of inflammation in the cell.

The Omega-6 to Omega-3 ratio in the cell membranes is key to the development of inflammatory disorders such as rheumatoid arthritis and heart disease. Diets low in oily fish and high in grains will promote inflammation and affect good health. The ratio of Omega-6 to Omega-3 in the West is around 15 to 1, fifteen times more Omega-6 on the cell membrane promoting inflammation. Having twice as much Omega-6 is considered by most experts to be the optimal amount but a ratio of 2:1 is not easy to produce by diet alone. Many people are aware of the health benefits of Omega-3 but the supplementation to achieve optimal health is erratic. Being able to test for Essential Red Cell Fatty Acids (Omega-6/Omega-3 ratio) identifies a person's current status and is sufficiently specific to allow an accurate supplementation recommendation to be made.

Results show the Omega Ratio with a clear recommendation for the required level of Omega Supplementation (if any) to achieve optimal levels.

Results show the ratio of Omega 3 to Omega 6, against an optimal ratio and provide a supplementation recommendation to achieve this optimal ratio.

TEST	CODE	SAMPLE REQS	TAT
Omega 3/Omega 6	OMG3	A 4	4 days

TDL TINIES™ (tinies@tdlpathology.com)

This list of tests covers some of the range that can be offered to patients for self-collection, using TDL TINIES™ and Royal Mail postal packs. Orders for TDL TINIES™ (packs with instructions) can be made up by TDL, by arrangement, and sent individually to patients, or supplied directly to doctors or healthcare companies. This is not a patient self-referral service and it is not point of care testing. All testing is undertaken in the laboratory and results are always returned directly to the healthcare company or doctor, **not to the patient**.

TDL TINY™ samples can be combined with other self-collected samples types (urine, stool, swabs, HPV).

In the case of positive Sexual Health, results will be reported with the recommendation for a venous sample to undertake confirmatory sample.

The sample volume from one TINY sample, when filled to the upper fill line, is **600 microlitres**. These, on receipt in the laboratory, are centrifuged and provide a volume of 300 microlitres of serum/ plasma (depending on the tube type used). Different tests require varying amounts of sample, and this, together with analyser dead volumes, means that although certain tests can be carried out from TINY tubes, many tests simply cannot be achieved from these smaller sample volumes.

TDL TINY™ microtainers are manufactured by BD Diagnostics. They are designed for samples collection from skin puncture. BD Microtainers come with a variety of additives for various tests, have visible fill lines, and are colour coded as for standard BD Vacutainer tubes. Tubes and Lancets are CE marked. TDL TINY™ packs are made up by TDL and contain everything needed for a patient to self-collect their blood sample.

Recommendation: most people are not experienced at self-collection of their own blood. Whilst it is certainly possible to do a number of tests from one TINY and it is possible to collect for two or three microtainers – the most successful outcomes are collected by patients who read the instructions given in each pack, and who collect enough sample for one microtainer. Instructions for sample collection are enclosed in each pack. A completed **request form** must be enclosed with the returned sample. Results will always be sent to the requesting doctor/healthcare organisation.

There is a TDL TINY™ video to assist patients with sample collection.

Visit http://www.tdlpathologv.com/test-information/test-service-updates/tdl-tinies

This can be personalised with logo and details.

For information and packs, please contact Annette Wilkinson 020 7307 7343 or email tinies@tdlpathologv.com.

Tests that can be self-collected using TDL TINIES™

	HAEMATOLOGY	
TEST	CODE	SAMPLE REQS
Full Blood Count	FBC	A
HbA1c	GHB	A

BIOCHEMISTRY			
TEST	CODE	SAMPLE REQS	
Amylase	AMY	В	
Calcium	CA	B	
Calcium + Vitamin D	CALD	В	
Carbohydrate Deficient Transferrin	CDT	В	
C Reactive Protein	CRP	B	
C Reactive Protein (High Sensitivity)	HCRP	В	
Ferritin	FERR	В	
HbA1c	GHB	A	
Iron Status Profile (FE/TIBC/FERR)	ISP	В	
Liver Function Tests	LFT	В	
Lipid Profile	LIPP	В	
Lp-PLA2 (PLAC) Test	PLA2	В	
Uric Acid	UA	В	
Vitamin B12 (Active)	B12	В	
Vitamin D (25-0H)	VITD	В	

ENDOCRINOLOGY			
TEST	CODE	SAMPLE REQS	
AFP	AFP	B	
Antimullerian Hormone	AMH	B	
Beta HCG (Quantitative)	QHCG	B	
Cortisol	CORT	B	
DHEA Sulphate	DHEA	B	
Female Hormone (LH/FSH/PROL/0EST)	FIP	B	
FSH	FSH	B	
HRT Profile 1 (FSH/0EST/PROG)	HRT	B	
Oestradiol	0EST	B	
Progesterone	PROG	B	
Prolactin	PROL	B	
SHBG	SHBG	B	
Testosterone	TEST	B	
Thyroid Profile 1 (Free T4/TSH)	TF	B	
Thyroid Profile 3 (Free T3/Free T4/TSH)	TF3	B	

IMMUNOLOGY			
TEST	CODE	SAMPLE REQS	
Borrelia Antibodies (IgG/IgM)	BORR	В	
Borrelia Antibodies (IgM)	BORM	B	
Endomysial Antibodies IgA	AEAB	B	
Gliadin Antibodies (IgG)	AGAB	B	
H. pylori Antibodies (IgG)	НВРА	B	
Tissue Transglutaminase IgA	TAA	B	

VIROLOGY/SEXUAL HEALTH			
TEST	CODE	SAMPLE REQS	
COVID-19 Roche Total Antibody IgG/IgM (SARS-CoV-2)	TCOV	CE marked self-collection kit*	
Hepatitis B Surface Antigen	THBA	B	
Hepatitis B Immunity (IgG)	THBI	В	
Hepatitis C Antibodies	THCV	B	
HIV1&2 Abs/p24 Ag	THIV	B	
HPV mRNA (All High Risk Subtypes)	HPVY	Self-collection kit	
HPV Individually Typed High Risk DNA Subtypes	HPVZ	Self-collection kit	
Syphilis IgG/IgM	TSYP	В	

^{*}See details below - CE marked self-collection kits for COVID must be used.

TUMOUR MARKERS		
TEST	CODE	SAMPLE REQS
AFP	AFP	B
Beta HCG(Oncology)	HCGQ	B
CA 15-3	C153	B
CA 19-9	C199	B
CA 125	C125	B
CEA	CEA	B
HE4 + ROMA	HE4	B
Prostate Specific Antigen	PSPA	В

LIFESTYLE		
TEST	CODE	SAMPLE REQS
Omega 3/Omega 6	OMG3	A
Vitamin B9 (Folic Acid) Red Cell	RBCF	A
Vitamin B9 (Folic Acid) Serum	FOLA	B
Vitamin B12 (Active)	B12	B
Vitamin D (25-OH)	VITD	B

COVID-19 (SARS-CoV-2) Roche Elecsys Anti-SARS-CoV-2 Total Antibody

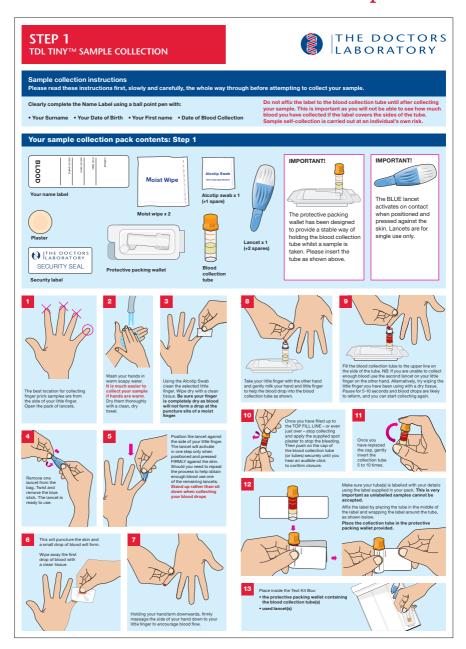
Roche Elecsys Anti-SARS-CoV-2 reports both IgG and IgM as a TOTAL antibody result. The Roche Antibody test is CE marked for **capillary** samples, and one of the PHE selected antibody tests.

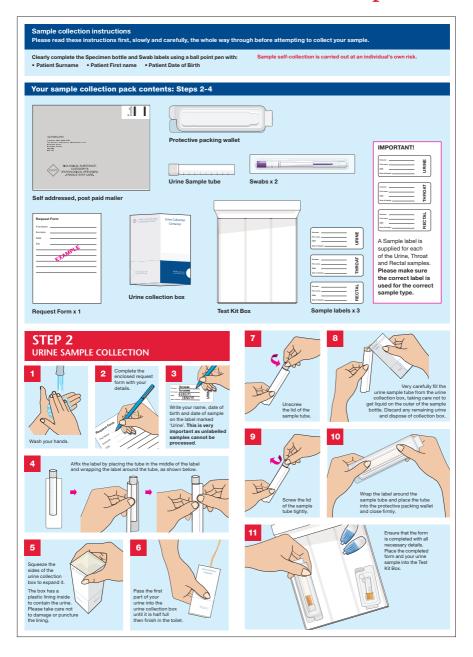
Test Code: TCOV

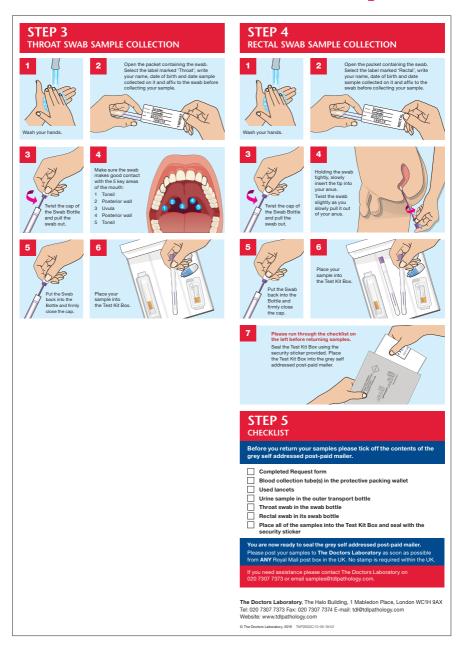
Sample Type	SST/Serum 📵 Capillary (>14 days after onset of symptoms)
Performance	Specificity 100%, Sensitivity 97.4%
Analysers	Roche e801
Turnaround time	24 hours from receipt of sample

Self-collection capillary samples must be taken using CE marked IVD for COVID Postal kitsThe kits include a Royal Mail Tracked 24 return label. Contact TCOV@tdlpathology.com for details.

NEW







Screening for Drugs of Abuse/Alcohol

TEST	CODE	SAMPLE REQS	TAT
Alcohol Profile	AP	ABBG	5-7 days
Alcohol Profile 2	ALCP	A A B B G RU	5-7 days
Amphetamines – Blood	AMPB	BB	5 days
Cannabinoids (Urine) Screen	CANN	RU	1 day
Cocaine (Urine) Screen	UCOC	RU	1 day
Drugs of Abuse From Blood	DOAP	B	5 days
Drugs of Abuse Profile – Random Urine Sample/No Chain of Custody Plus Alcohol	DOA3	RU	2 days (5 days with LCMS/MS confirmation)
Drugs of Abuse Profile – Random Urine Sample/ No Chain of Custody	DOA	RU	2 days (5 days with LCMS/MS confirmation)
Drugs of Abuse Profile – With Chain of Custody	DOAL	RU/CoC Collection Containers 1,2	2 days (5 days with LCMS/MS confirmation)
Drugs of Abuse Profile – Without Chain of Custody	DOAN	RU ²	2 days (5 days with LCMS/MS confirmation)
Ketamine Screen	KETA	RU	7-10 days
LSD	LSD	RU	5 days
Opiate Screen (Urine)	UOPI	RU	2 days
PEth (Phosphatidylethanol)	PETH	A 38	5-7 days
Urine EtG (Ethyl glucuronide)	ETG	RU	1 week

Chain of custody refers to the system of controls governing the entire urine collection, processing and storage of sample to ensure that a particular urine specimen originated from a particular individual and that the reported results relate, beyond doubt, to that specimen. Chain of custody requires attention to detail so that it is possible to prove that there has been no opportunity for the sample to be accidentally or maliciously adulterated. Sample collection should be undertaken by collectors who are well versed in the protocols of chain of custody.

Samples submitted for analysis will undergo initial screening. Urinary creatinine is routinely measured during testing to verify the validity of the sample submitted. Creatinine levels below normal occur when the urine has been diluted, either directly or by drinking large amounts of water before providing the urine sample. Chain of custody containers, forms, seals and barcodes are provided by TDL on request. All Chain of Custody, and non-chain, samples with positive findings will proceed to identification/confirmation by Gas Chromotography/Mass Spectrometry.

Screening for Drugs of Abuse/Alcohol

DRUGS OF ABUSE SCREENING

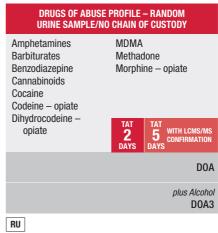




RU 2

ABBG

	ALCOHOL PROFILE			
LFT CDT PEth	Alcohol Level MCV	TAT 5-7 DAYS		
		AP		



DRUGS OF ABUSE WITHOUT CHAI		
Amphetamines Barbiturates Tricyclic Antidepressants Benzodiazepine Cannabinoids	Opiates Cocaine	TAT 5 DAYS
		DOAP

ALCOHOL PROFILE 2

LFT Alcohol Level
CDT MCV
PEth
Urine Ethyl Gluconaride (EtG)

ALCP

DOAN

Occupational health

OCCUPATIONA	L HEALTH – TRAC	E METALS IN BLOOD	
TEST	CODE	SAMPLE REQS	TAT
Aluminium	ALUM	(7 days
Arsenic	ARS	(A) or (1)	5 days
Cadmium	CADM	(A) or (1)	5 days
Chromium	CHRO	A	5 days
Cobalt (Serum)	COBB	B	5 days
Copper (Serum)	COPP	B	5 days
Lead	LEAD	A	5 days
Lead Profile (Hb, ZPP, Lead)	LEAZ	A 13	3-5 days
Magnesium (Serum)	MG	B	4 hours
Manganese (Serum)	MANG	B	5 days
Mercury	MERC	(A) or (1)	5 days
Nickel	NICK	B	5 days
Silver	SILV	B	5 days
Trace Metal (Blood) Profile	TRAC	ABB	7-10 days
Zinc (Serum/Plasma)	ZINC	K	1 day

TRACE METAL (BLOOD) PROFILE						
Aluminium Manganese	Iron Calcium	Zinc Magnesium	Copper Cadmium	Mercury Lead	Chromium	7-10 DAYS
						TRAC



Occupational health

0	CCUPATIONAL HEALTH –	TRACE METALS IN URI	NE
TEST	CODE	SAMPLE REQS	TAT
Aluminium	ALUU	RU	1-2 weeks
Arsenic	ARSE	RU ³⁰	5 days
Cadmium	URCD	RU ³⁰	5 days
Chromium	URCR	RU ³⁰	10 days
Cobalt	COBA	RU ³⁰	5 days
Copper	URCU	CU	5 days
Lead	URPB	RU	5 days
Magnesium	URMG	PU	1 day
Mercury	URHG	RU¹	5 days
Nickel	NICU	RU	10 days
Silver	USIL	RU	5 days
Zinc	URZN	CU	5 days

OCCUPATIONAL	L HEALTH — TE	STS FOR SPECIFIC EXPOS	URE
TEST	CODE	SAMPLE REQS	TAT
2-Butanone GC	BUTA	RU	7 days
2-Furoic Acid	2FA	RU	10 days
Acetone – Blood	ACTB	A or (1)	2 weeks
Acetone – Urine	ACTU	RU	5 days
Alcohol Profile	AP	ABBG	5-7 days
Alcohol Profile 2	ALCP	A B B G RU	5-7 days
Benzene	BENZ	J ^{1,6}	3 days
Beta 2 Microglobulin (Serum)	B2MG	B	2 days
Beta 2 Microglobulin (Urine)	UB2M	RU	3 days
Bromide	BROM	B	3 days
Cholinesterase (Blood)	CHRC	•	5 days
Cholinesterase (Serum/Pseudo)	CHPS	B	4 hours
Cotinine (Saliva)	SCOT	Saliva Kit ¹	1-2 weeks
Doxepin Level (Sinequan)	DOXE	A	10 days
MBOCA in Urine	MBOC	RU	10 days
Molybdenum (Serum)	MOLY	B	5 days
Pethidine – Urine	UPET	RU	4 weeks
Thallium (Blood)	THAL	A / (1 week
Thallium (Urine)	URTH	RU	1 week
Toluene (Blood)	TOL	J	10 days
Toluene (Urine)	UTOL	RU	10 days
Trichloracetic Acid (Urine)	UTCA	RU	5 days
Xanthine – Blood	XANB	A	2 weeks
Xylene – Urine	UXYL	RU ³⁰	2 weeks
Zinc Protoporphyrin	ZNPR	A 13	5 days

The Cytology Laboratory provides a rapid service for liquid based cervical samples. Urine cytology is performed in house while other non-gynaecological cytology samples are referred to a UKAS accredited laboratory for reporting.

Human papilloma virus (HPV), Chlamydia and Gonorrhoea testing is carried out routinely from ThinPrep vials and can be requested at the time the cervical sample is taken.

Laboratory hours

The laboratory department is open between 9.00am and 6.00pm. Out of hours results available on 020 7307 7373.

Urgent samples

It is helpful if requests for urgent samples can be discussed with the Cytology Manager. Please telephone 020 7307 7323.

Use of service/Information required

Request forms must include **3 identifiers** (this can be patient's full name = 2, date of birth, hospital number or reference number) and need to accompany each sample.

Appropriate clinical information providing previous treatment/histological diagnosis is essential to ensure correct management recommendations can be given in the patient report. Tick boxes are provided to assist you.

The specimen container must be clearly labelled with patient details. Forms and samples which are mismatched will result in the sample being returned to the sender for correction and will delay the report turn around time.

Clinical advice

The Consultant Cytopathologists and the Advanced Practitioner work together to provide clinical and technical advice, including recommendations for follow-up, HPV testing and management of complex cases. To contact the department directly, please telephone 020 7307 7323.



RECORD...

- ...the patient's 3 identifiers to include date of birth on the vial.
- ...the patient information and medical history on the cytology requisition form.



OBTAIN...

...an adequate sample from the cervix using a Cervex Brush (broom-like device). Insert the central bristles of the brush into the endocervical canal deep enough to allow the shorter bristles to fully contact the ectocervix. Push gently and rotate the brush in a clockwise direction five times.



RINSF

...the Cervex Brush immediately into the PreservCyt Solution vial by pushing it into the bottom of the vial 10 times, forcing the bristles apart. As a final step, swirl the brush vigorously to further release material. Visually inspect the Cervex Brush to ensure that no material remains attached. Discard the brush.

Do not leave the head of the Cervex Brush in the vial. Check the vial is in date before use.



TIGHTEN...

...the cap so that the black torque line on the cap passes the black torque line on the vial. Do not over-tighten.



PLACE...

...the vial and request form in a specimen bag for transportation to TDL.

ThinPrep® PAP Test Cervex Brush Protocol

PREPARE ALL EQUIPMENT BEFORE STARTING THE PROCEDURE

- Note expiry date on sample collection vial. Do not use expired vials.
- Ensure the entire plastic seal is removed from the lid of the vial and discarded.
- Complete patient details on both the request form and the vial.
 Specimens may be returned or discarded if details are missing from the vial.
- Remove the lid from the vial before taking the sample.
- Use of lubricant is NOT recommended.

DO

- If excessive mucus is present, this should be gently removed before sampling.
- Use either the Cervex Brush (broom-like device) on its own or a Plastic spatula and endocervical brush combination.
- The Cervex Brush should be rotated 5 times in a clockwise direction.
 The Plastic spatula should be rotated through 360 degrees and the endocervical brush rotated through one quarter to one half turn.
- Immediately rinse the collected material into the vial.
- Replace the lid and tighten so that the black torque line on the cap passes the black torque line on the vial to avoid leakage.
- Keep the unlabelled portion of the sample vial free of labels so that the contents can be seen.
- If barcoded labels are used these must be applied horizontally around the vial.
- Samples should be sent to the laboratory without delay.

DON'T

- DO NOT leave the head of the Cervex Brush in the vial.
- DO NOT routinely clean the cervix or take a cervical swab before taking a cervical sample.
- An endocervical brush should never be used in isolation.
- DO NOT under any circumstances use a wooden spatula.
- DO NOT leave the collection device sitting in the vial whilst dealing with the patient.
- DO NOT over-tighten the lid on the vial.
- DO NOT place multiple labels on the outside of the vial.
- DO NOT apply barcoded labels vertically on the vial.
- DO NOT use expired vials.
- DO NOT delay the sending of vials to the laboratory. The sample needs to be processed within 3 weeks of collection.
- DO NOT use excessive lubricant please AVOID if possible.

Gynaecological Samples

The Cytology department processes cervical samples directly referred from all sectors of practice – Health Screening, Occupational Health, GP's, Consultants, Colposcopy Units, Clinics, Hospitals and other Laboratories.

Liquid Based Cytology (LBC) is processed using the Hologic ThinPrep system.

The Doctors Laboratory uses the Hologic Imaging system as an enhanced Quality Control.

Information for Sample Takers is available by contacting the department. Important: the head of the cervical broom must NOT be left in the vial. The use of lubricant interferes with LBC sampling and may result in an inadequate sample. Use of lubricant is NOT recommended as it can affect the processing quality of the sample. Supplies of Thin prep vials are available from TDL.

STI Screening from Hologic Thin Prep Vial (HPV - see page 162)

Tests are priced individually. Please request tests individually. Thin Prep Vials are kept for 21 days after receipt of sample. Requests for additional tests from the vial already received in the laboratory can be made by contacting the Cytology Department.

Infection by PCR (singles)

TEST	CODE	SAMPLE REQS	TAT
Chlamydia trachomatis	TPCR	TPV	2 days
N. gonorrhoea	TGON	TPV	2 days
Chlamydia/Gonorrhoea	TCG	TPV	5 days
Mycoplasma genitalium	MGEN	TPV	2 days
Ureaplasma urealyticum	UGEN	TPV	2 days
Trichomonas vaginalis	TVPC	TPV	2 days
Gardnerella vaginalis	GVPC	TPV	2 days
Herpes Simplex I/II	HERD	TPV	5 days

	<u>"</u>
Chlamydia trachomatis N. gonorrhoea	All tests can be requested individually
Mycoplasma genitalium	*included if POSITIVE M.gen is
Macrolide Resistance Test (M.gen)*	detected from the same sample.
Ureaplasma	
Trichomonas vaginalis	
Gardnerella vaginalis	TAT
Herpes Simplex I/II	2
	PP1

Human papillomavirus (HPV) is a common virus transmitted through sexual contact. High Risk subtypes of HPV (HR-HPV) are linked to the development of abnormal cells and can cause cervical cancer. HPV is a necessary cause of invasive cervical cancer. Evidence shows HPV testing is a more effective way to identify women at risk of cervical cancer than by testing microscopically for abnormal cells from a PAP smear.

HR-HPV testing has been used in the UK since 2011 to identify women with low grade cytology abnormalities and as a follow up test of cure in women who have received treatment. In 2017 the UK NHSCSP recommended that **testing for HPV should replace cytology as the first (primary test) in cervical screening**. Primary HR-HPV testing has higher sensitivity for high grade CIN than primary cytology. HR-HPV testing also has a lower false negative rate than cytology. Primary HR-HPV testing was fully implemented in the UK during 2020. Sample taking remains unchanged: HR-HPV testing is carried out from Thin Prep samples. Cytology will be undertaken as a triage if HPV is DETECTED.

WHAT DOES THIS CHANGE MEAN?

It means that HPV testing is the **FIRST LINE TEST**. It will be carried out as a single test, with a single result reported as DETECTED/NOT DETECTED.

- If HR-HPV is NEGATIVE (NOT DETECTED) this means no further testing is needed for your patient: she returns to Routine Recall
- If HR-HPV is POSITIVE (DETECTED) this means that CYTOLOGY will be processed from the same Thin Prep Vial. A further specimen is not required.
- If the CYTOLOGY result from this sample is HR-HPV NOT DETECTED the patient Recall
 will be determined by the screening history and will either be a repeat HR-HPV test in 12 months'
 time or, if HR-HPV remains persistent, a referral to colposcopy will be recommended.
- If the CYTOLOGY result from this sample is ABNORMAL the recommendation is to refer this patient for COLPOSCOPY.

https://www.gov.uk/government/publications/cervical-screening-primary-hpv-screening-implementation/cervical-screening-implementation-quide-for-primary-hpv-screening

Since 1st January 2019 all TDL requests for HPV have been processed as follows:

- If HPV is requested as a single test, and the result is NEGATIVE/NOT DETECTED, cervical cytology (PAPT) will only be processed if specifically requested.
 The PAPT would be charged as an additional test.
- If HPV result is DETECTED, cervical cytology (PAPT) will be processed, even if not requested. The PAPT cervical sample will NOT be charged additionally.
- If cervical cytology (PAPT) is requested, HPV will always be processed with the PAPT.
 The PAPT will be charged.

UNDERSTANDING THE SIGNIFICANCE OF HPV TESTING

The benefit of a negative HPV result is its negative predictive value – meaning that a negative HPV result indicates that a patient is at very low risk of developing cervical disease. The negative predictive value of both DNA and mRNA testing is the same. DNA tests detect presence of virus only. A mRNA test detects the presence of viral oncogenic expression.

Requests for Cervical Cytology (PAPT) only will no longer be processed without HPV. HPV testing will be charged.

Requests for PAPT

TEST	CODE	SAMPLE REQS	TAT
Cervical Cytology	PAPT will include HPVH	TPV	2-3 days

If PAPT is requested as a single test, HR-HPV will be undertaken additionally, and a combined report will be issued. **PAPT and HPVH will be charged**.

Requests for PAPT with selected HPV (HPVH or HP20 or HPVT)

TEST	CODE	SAMPLE REQS	TAT
PAPT and HPVH	PAPT + HPVH	TPV	2-3 days

If PAPT and HPVH are requested together, results will be given as a combined report, **PAPT and selected HPVH test will be charged**.

Requests for HPV as the PRIMARY TEST will reflex to PAPT if HPV is DETECTED/POSITIVE. PAPT will NOT be charged.

TEST	CODE	SAMPLE REQS	TAT
HPV mRNA (All High Risk Subtypes)	HPVH	TPV	2-3 days

If HPV is DETECTED/POSITIVE, cervical cytology (PAPT) will be processed **without charge**. The PAPT will be processed from the same vial.

Requests for HP20 as a single test

TEST	CODE	SAMPLE REQS	TAT
HPV Typed DNA	HP20	TPV/PCR Swab	2-3 days

HPV low and high risk DNA subtypes will be reported individually (5 low and 14 high risk). If HPV is DETECTED/POSITIVE, cervical cytology (PAPT) will be processed **without charge**. The PAPT will be processed from the same vial.

Requests for HPVT as a single test

TEST	CODE		TAT
HPV Typed DNA HPVT		TPV	3 days

If one or more of DNA types 16, 18, 31, 33, 45 are DETECTED/POSITIVE, reflex testing for expression of E6/E7 oncoproteins will be undertaken and cervical cytology (PAPT) will be processed **without charge**. The PAPT will be processed from the same vial.

HPV/PAPT Combined Report

Where HPV result is reported with Cervical Cytology, a recommendation for patient management will be given, based on the combined findings.

Self-collection HPV samples

TDL Self-Collection HPV Test

Human Papillomavirus (HPV) is the primary cause of nearly all cervical cancer. In most cases, the HPV virus is harmless and causes no symptoms. Most women who acquire HPV are able to clear the infection through their own immune systems. Persistent presence of high-risk types of HPV can cause cervical lesions which over time may develop into cancer if untreated. Testing for HPV determines the presence, or absence, of HPV and will determine whether the HPV type present is high risk for CIN and cervical cancer.

The **Self Collection HPV Test** provides women with the option to self-collect a vaginal specimen that is then sent to the laboratory for testing. There is well documented high level of concordance between the HPV DNA results from self-collected and clinician-collected specimens.

The **Self-Collection HPV Test** is validated, using a CE marked sample collection device for vaginal cell collection. This sample is then sent to the laboratory for processing for 14 high risk HPV DNA subtypes. A negative result means that these high-risk subtypes HPV were not detected and the patient is at extremely low risk of developing high-grade cervical disease/CIN2+ before their next routine visit.

A positive HPV result might indicate an increased risk of developing CIN/cervical cancer, and the report from the laboratory will provide a clear recommendation for follow-up/colposcopy.

The value of HPV DNA testing in cervical cancer screening and disease detection has been proven over and over again. Self-collection of specimens for HPV testing is not intended to replace existing patient management pathways but allows for:

- Those who wish to test following a change of sexual partner
- Option for identifying individual high risk DNA subtypes
- Personal preference to self-collect vaginal samples
- An acceptable option for women who avoid having regular cervical smears
- Self-collection for HPV increases acceptability and coverage rate of cervical cancer prevention

Results will always be sent to the requesting clinician, clinic or healthcare organisation.

HPVY Self-Collected HPV DNA with reporting of high risk subtypes (16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68).

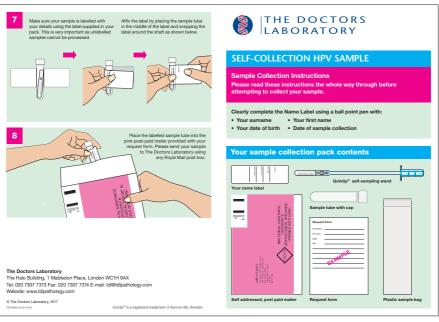
HPVZ Self-Collected HPV DNA with individual reporting of all subtypes

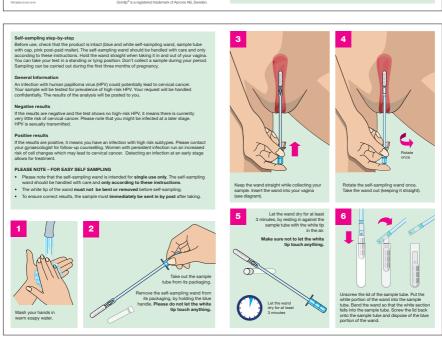
16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59, 66, 68.

For more information, or to order Self-Collection HPV Test Packs, please contact Annette Wilkinson on 020 7307 7373 or annette.wilkinson@tdlpathology.com

TEST	CODE	SAMPLE REQS	TAT
HPV mRNA (All High Risk Subtypes)	HPVY	Self-collection kit	3 days
HPV Individually Typed High Risk DNA Subtypes	HPVZ	Self-collection kit	10 days

Self-collection HPV samples





Non-Gynae Cytology

Non-Gynaecological Cytology

Urines

To prevent cell degeneration it is advisable to collect urine samples in a sample pot containing preservative (available from TDL Supplies). Use of preservative will ensure the cellular material is preserved up to 48 hours.

Ideally 10 mls (excluding preservative) from a freshly fully voided urine (when the bladder is emptied) mid-morning sample should be submitted for cytological assessment. If microbiology or chemistry investigations are also required, **please submit separate urine samples** and mark the vials accordingly. A mid-stream urine sample is NOT recommended for cytological assessment is it could lead to a low cellular yield. If a delay of greater than 24 hours in reaching the laboratory is anticipated samples should be refrigerated at 4°C.

Sputum

Sputum should be collected on at least three occasions if underlying lung carcinoma is suspected. A single sputum is sufficient for microbiological assessment. Sputum should be sent to the laboratory immediately following production, or stored in a universal container containing cytolyt cell fixative if there is a likely delay. Please note that this is only acceptable if sputum is only for Cytology. Microbiology cannot be performed on fixed material. Early morning sputum is ideal, but contamination with food, toothpaste and tobacco should be avoided.

Fluids

All available material should be submitted in a sterile container without fixative as quickly as possible. If any delay is anticipated, the material should be submitted in cytolyt fixative.

Cerebrospinal fluid (CSF)

Ideally CSF should be submitted fresh or as an air dried cytospin slide, unstained and in a plastic transport slide box. A minimum of 3mls should be submitted either in fresh form or spun on multiple slides for cytopathologists' review and opinion. Please contact TDL Cytology for advice if required on 020 7307 7323 /7373.

URINE/SPUTUM/FLUID			
TEST	CODE	SAMPLE REQS	TAT
Fluid Cytology	CATF	Fluid ⁴	3 days
Urine Cytology (Urine cytology containers available from TDL Supplies)	URCY	Urine (30mls) ²¹	2 days

CATEGORY	CODE	TISSUE SAMPLE
Breast	HIS1	Breast Capsule
Breast	HIS4	Breast Reduction (Bilateral)
Breast	HIS3	Breast Reduction (Unilateral)
Breast	HIS2	Breast Tissue
Breast	HIS2	Cavity Shavings
Breast	HIS1	Core Biopsy (1 Specimen)
Breast	HIS2	Core Biopsy (2 Specimens)
Breast	HIS3	Core Biopsy (3 Specimens)
Breast	HIS4	Core Biopsy (4 Specimens)
Breast	HIS3	Lumpectomy
Breast	HIS5	Mastecomy (simple)/Wide Local Excision (WLE)
Breast	HIS5+HIS4	Mastectomy + axillary clearance
Breast	HIS4	Microdochectomy
Breast	HIS2	Nipple
Breast	HIS5	Sentinal Nodes
Cardiac	HIS3	Aorta
Cardiac	HIS2	Cardiac Biopsy
Cardiac	HIS3	Cardiac Tumour Excision
Cardiac	HIS2	Heart Valves
Cardiac	HIS2	Mediastinal Tissue
Cardiac	HIS2	Pericardium
Cardiac	HIS2	Temporal Artery Biopsy
Endocrine	HIS5	Adrenal
Endocrine	HIS4	Parathyroid
Endocrine	HIS4	Thyroid (Lobe)
Endocrine	HIS5	Thyroid (Total)
ENT – Biopsy	HIS2	Bronchial Biopsy
ENT – Biopsy	HIS1	Cholesteatoma
ENT – Biopsy	HIS1	Dental Cyst
ENT – Biopsy	HIS1	Ear Canal Biopsy
ENT – Biopsy	HIS1	Ear Polyp
ENT – Biopsy	HIS1	Epiglottis
ENT – Biopsy	HIS1	Gingivial Tissue
ENT – Biopsy	HIS1	Laryngeal Biopsy
ENT – Biopsy	HIS2	Laryngeal Nodule (Bilateral)
ENT – Biopsy	HIS1	Laryngeal Nodule (Unilateral)
ENT – Biopsy	HIS2	Mandible Biopsy
ENT – Biopsy	HIS2	Maxillary Mucosa
ENT – Biopsy	HIS2	Mucocele
ENT – Biopsy	HIS1	Nasal Biopsy
ENT – Biopsy	HIS1	Nasal Polyps
ENT – Biopsy	HIS1	Oral Biopsy
ENT – Biopsy	HIS1	Palatal Biopsy

CATEGORY	CODE	TISSUE SAMPLE
ENT – Biopsy	HIS1	Pharyngeal Biopsy
ENT – Biopsy	HIS2	Pleural Biopsy
ENT – Biopsy	HIS1	Thyroid Biopsy
ENT – Biopsy	HIS1	Tongue Biopsy
ENT – Biopsy	HIS1	Tonsil (1 Specimen)
ENT – Biopsy	HIS2	Tonsil Biopsy
ENT – Biopsy	HIS2	Tonsils (2 Specimens)
ENT – Biopsy	HIS2	Uvelectomy
ENT – Biopsy	HIS1	Vocal chords
ENT – Resections	HIS5+HIS2	Glossectomy
ENT – Resections	HIS5	Laryngectomy
ENT – Resections	HIS5+HIS2	Maxillectomy
ENT – Resections	HIS5+HIS2	Neck Dissection
ENT – Resections	HIS5+HIS5	Neck Dissection (Bilateral)
ENT - Resections	HIS4	Parotidectomy
ENT – Resections	HIS4	Partial Thyroidectomy
ENT – Resections	HIS5+HIS5	Pharyngectomy
ENT – Resections	HIS5+HIS2	Rhinectomy
ENT – Resections	HIS3	Submandibular Gland – Excision
ENT – Resections	HIS2	Thyroglossal Cyst
GI Endoscopic – Biopsy	HIS1	Bile duct biopsy
GI Endoscopic – Biopsy	HIS1	Colonic Polyp
GI Endoscopic – Biopsy	HIS1	Endoscopic Biopsy (1 specimen)
GI Endoscopic – Biopsy	2H1	Endoscopic Biopsy (2 specimens)
GI Endoscopic – Biopsy	3H1	Endoscopic Biopsy (3 specimens)
GI Endoscopic – Biopsy	4H1	Endoscopic Biopsy (4 specimens)
GI Endoscopic – Biopsy	5H1	Endoscopic Biopsy (5 specimens)
GI Endoscopic – Biopsy	6H1	Endoscopic Biopsy (6 specimens)
GI Endoscopic – Biopsy	7H1	Endoscopic Biopsy (7 specimens)
GI Endoscopic – Biopsy	8H1	Endoscopic Biopsy (8 specimens)
GI Endoscopic – Biopsy	9H1	Endoscopic Biopsy (9 specimens)
GI Endoscopic – Biopsy	10H1	Endoscopic Biopsy (10-15 specimens)
GI Endoscopic – Biopsy	HIS5	Liver Biopsy – Medical
GI Endoscopic – Biopsy	HIS3	Liver Biopsy – Tumour
GI Endoscopic – Biopsy	HIS3	Omental Biopsy
GI Endoscopic – Biopsy	HIS1	Pancreatic Biopsy
GI Endoscopic – Biopsy	HIS1	Perianal Biopsy
GI-Resection – Small	HIS215	Anal Fistula
GI-Resection – Small	HIS2	Appendix
GI-Resection – Small	HIS3	Endo Mucosal Resection (EMR/ESD)
GI-Resection – Small	HIS2	Gallbladder
GI-Resection – Small	HIS2	Haemorrhoidectomy
GI-Resection – Small	HIS2	Hernia Sac
GI-Resection – Small	HIS3	Meckel's Diverticulum

CATEGORY	CODE	TISSUE SAMPLE
GI-Resection – Small	HIS2	Mesentery
GI-Resection – Small	HIS2	Perianal Biopsy/Warts
GI-Resection – Small	HIS2	Pilonidal Sinus
GI-Resection – Small	HIS2	Polypectomy
GI-Resection – Small	HIS2	Umbilical Lesion
GI Resection – Large	HIS5	Biliary Resection
GI Resection – Large	HIS5+HIS2	Colon
GI Resection – Large	HIS5	Distal Pancreatectomy
GI Resection – Large	HIS5+HIS2	Gastrectomy
GI Resection – Large	HIS5	Gastric Wedge Resection
GI Resection – Large	HIS5	lleoanal Pouch Resection
GI Resection – Large	HIS4	lleostomy
GI Resection – Large	HIS3	lleum
GI Resection – Large	HIS5+HIS2	Large Bowel Resection – Benign/Malignant
GI Resection – Large	HIS4	Liver Wedge Resection
GI Resection – Large	HIS5+HIS2	Oesophagectomy
GI Resection – Large	HIS5	Partial Hepatectomy
GI Resection – Large	HIS5	Small Bowel Resection – Benign/Malignant
GI Resection – Large	HIS5+HIS5	Whipple's Procedure/Pancreatectoduodenectomy
Gynaecology	HIS2	Cervical Biopsy
Gynaecology	HIS1	Cervical Polyp
Gynaecology	HIS4	Cervix
Gynaecology	HIS1	Curettings – Endocervical
Gynaecology	HIS1	Curettings – Endometial
Gynaecology	HIS2	Endometrial Biopsy
Gynaecology	HIS1	Endometrial Pipelle
Gynaecology	HIS1	Endometrial Polyp
Gynaecology	HIS2	Fallopian Tube
Gynaecology	HIS3	Fibroids
Gynaecology	HIS2	Fimbrial Cyst
Gynaecology	HIS4	LLETZ and/or Cone Biopsy
Gynaecology	HIS2	Mastoid
Gynaecology	HIS2	Ovarian Biopsy
Gynaecology	HIS2	Ovarian Cyst
Gynaecology	HIS1	Ovarian Pipelle
Gynaecology	HIS5	Ovaries (Bilateral)
Gynaecology	HIS3	Ovary (Unilateral)
Gynaecology	HIS4	Ovary and Tube (Unilateral)
Gynaecology	HIS5	Ovary and Tube (Bilateral)
Gynaecology	HIS2	Pelvic Mass
Gynaecology	HIS1	Peritoneal Biopsy
Gynaecology	HIS5	Placenta
Gynaecology	HIS2	Pouch of Douglas
Gynaecology	HIS1	Products of Conception

CATEGORY	CODE	TISSUE SAMPLE
Gynaecology	HIS2	Uterine Polyp
Gynaecology	HIS4	Uterus
Gynaecology	HIS5	Uterus and Cervix
Gynaecology	HIS5	Uterus, Tubes And Ovaries
Gynaecology	HIS1	Vulval Biopsy
Haemato-Oncology	HIS5	Bone Marrow
Haemato-Oncology	HIS2	Lymph Node
Haemato-Oncology	HIS3	Lymph Node (Lymphoma)
Haemato-Oncology	HIS3	Lymph Node (Metastatic Disease)
Haemato-Oncology	HIS5	Spleen
Haemato-Oncology	HIS5	Thymus
Lung – Biopsy	HIS3	Lung Biopsy
Lung – Resections	HIS3	Lung Lesion Small Wedge Resection
Lung – Resections	HIS5+HIS5	Lung Resection
Lung – Resections	HIS5	Lung Tumour Resection +/- Nodes
Neurosurgery	HIS3	Brain Biopsy
Neurosurgery	HIS3	Brain Resection
Neurosurgery	HIS5+HIS5	Muscle Biopsy
Neurosurgery	HIS3	Pituitary Gland – Resection
Neurosurgery	HIS3	Spinal Tumour Biopsy
Neurosurgery	HIS3	Spinal Tumour Resection
Neurosurgery	HIS4	Vertebrea
Opthalmic	HIS1	Conjunctival Biopsy
Opthalmic	HIS1	Cornea
Opthalmic	HIS4	Globe / Removal of Eye
Opthalmic	HIS2	Lacrimal Gland Biopsy/Excision
Opthalmic	HIS1	Orbit Contents Of Eye
Orthopaedic	HIS1	Bone Biopsy
Orthopaedic	HIS2	Bone Currettings
Orthopaedic	HIS2	Bursa
Orthopaedic	HIS2	Duputrenes Contracture
Orthopaedic	HIS3	Femoral Head Resection
Orthopaedic	HIS1	Ganglion Cyst
Orthopaedic	HIS3	Joint Resurfacing/Redo Prosthesis Capsule
Orthopaedic	HIS1	Neuroma
Orthopaedic	HIS2	Synovial Biopsy
Orthopaedic	HIS3	Tendon
Skin and Soft Tissue	HIS2	Abscess
Skin and Soft Tissue	HIS3	Alopecia Biopsies
Skin and Soft Tissue	HIS1	Cyst Excision
Skin and Soft Tissue	HIS1	Fossa
Skin and Soft Tissue	HIS1	Granuloma
Skin and Soft Tissue	HIS3	Lipoma
Skin and Soft Tissue	HIS2	Skin Excision BCC/SCC

CATEGORY	CODE	TISSUE SAMPLE
Skin and Soft Tissue	HIS1	Nail
Skin and Soft Tissue	HIS1	Pilonidal Sinus
Skin and Soft Tissue	HIS5	Sentinel Nodes In Skin Cancer (Melanoma)
Skin and Soft Tissue	1SK	Skin Biopsy (1 specimen)
Skin and Soft Tissue	2SK	Skin Biopsy (2 specimens)
Skin and Soft Tissue	3SK	Skin Biopsy (3 specimens)
Skin and Soft Tissue	4SK	Skin Biopsy (4 specimens)
Skin and Soft Tissue	5SK	Skin Biopsy (5 specimens)
Skin and Soft Tissue	6SK	Skin Biopsy (6 specimens)
Skin and Soft Tissue	7SK	Skin Biopsy (7 specimens)
Skin and Soft Tissue	8SK	Skin Biopsy (8 specimens)
Skin and Soft Tissue	9SK	Skin Biopsy (9 specimens)
Skin and Soft Tissue	10SK	Skin Biopsy (10 specimens)
Skin and Soft Tissue	11SK	Skin Biopsy (11-15 specimens)
Skin and Soft Tissue	HIS3	Soft Tissue Tumour Biopsy
Skin and Soft Tissue	HIS3	Soft Tissue Tumour Resection
Urology – Biopsy	HIS1	Bladder Biopsy
Urology – Biopsy	HIS1	Core Biopsy (Urology)
Urology – Biopsy	HIS2	Hydrocele
Urology – Biopsy	HIS2	Penile Biopsy
Urology – Biopsy	HIS1	Prostate biopsy
Urology – Biopsy	2H1	Prostate biopsies x 2
Urology – Biopsy	3H1	Prostate biopsies x 3
Urology – Biopsy	4H1	Prostate biopsies x 4
Urology – Biopsy	5H1	Prostate biopsies x 5
Urology – Biopsy	6H1	Prostate biopsies x 6
Urology – Biopsy	7H1	Prostate biopsies x 7
Urology – Biopsy	8H1	Prostate biopsies x 8
Urology – Biopsy	9H1	Prostate biopsies x 9
Urology – Biopsy	10H1	Prostate biopsies x 10-12
Urology – Biopsy	HIS5	Testicular Biopsy (Bilateral)
Urology – Biopsy	HIS4	Testicular Biopsy (Unilateral)
Urology – Biopsy	HIS1	Urethral Biopsy
Urology – Biopsy	HIS2	Vasectomy
Urology – Resection	HIS5+HIS5	Cystoprostatectomy
Urology – Resection	HIS3	Epididymis
Urology – Resection	HIS1	Foreskin/Circumcision
Urology – Resection	HIS5	Nephrectomy / Kidney
Urology – Resection	HIS5+HIS5	Prostatectomy
Urology – Resection	HIS5+HIS5	Radical Cystectomy
Urology – Resection	HIS3	Testis
Urology – Resection	HIS3 – HIS5+	TURBT (dependent on number of blocks)
Urology – Resection	HIS3 – HIS5	TURP (dependent on number of blocks)

Special instructions for samples

- Contact the laboratory for special sample tubes/ containers/instructions.
- 2 Confirmation of not negative drug screens by LCMS/MS may take up to 5 days.
- 3 Clinical history essential and protect from light.
- 4 Send to the laboratory without delay.
- 5 Do not send sample to the laboratory between Friday noon and Monday morning.
- 6 Contact the Referrals Department before taking and sending sample to the laboratory.
- 7 Sample should be separated and frozen if sending overnight.
- 8 DRP Form required. DRP Form can be found at the back of the guide.
- 9 Clinical history must be provided.
- 10 Contact the laboratory for special stability tubes for lymphocyte subsets – or take an EDTA sample and ensure same day delivery to the laboratory, Monday to Friday noon (do not send sample between Friday noon and Monday morning).
- 11 Patient consent required. Consent Form can be found at the back of this guide.
- 12 Please provide one sample for each person being tested.
- 13 Protect from light.
- 14 Provide details of travel history.
- 15 Ammonia

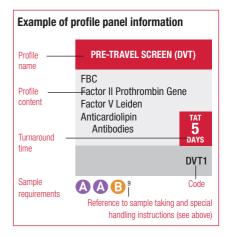
Sample: EDTA plasma only. Full tubes and tightly stoppered. On ice, centrifuged and analysed 20-30 mins post venepuncture (or plasma can be frozen). If haemolysed gives falsely high results. Patient: Fasting. Avoid smoking.

16 Lactate

Sample: Fluoride oxalate plasma only.
On ice and separate from cells 15-30 mins, analyse promptly. Handle with care as sweat contains large amounts of lactate. No tourniquet. Patient: Rest 30 mins prior to test.

- 17 Homocysteine Should be spun and separated with 1 hour of venepuncture.
- 18 Citrate Samples Samples should be double spun and separated and frozen within 4-8 hours of sample taking, if a delay is expected with transportation to the laboratory, samples must be transported as frozen.

- 19 Must include patient's age, height and weight.
- 20 Sample types: FCRU or PCR swab or TPV or Semen.
- 21 Urine cytology container, ideally first catch, mid-morning specimen.
- 22 Must be fresh.
- 30 Collect sample at end of exposure.
- 33 Sample must be labelled by hand with first name, family name, gender and date of birth detailed on sample and form. Do not use labels other than the tube label.
- 34 Samples must arrive in the laboratory on the same day of sample taking or contact the laboratory.
- 35 Patient should be fasting and resting for 30 mins before sample taking. Samples need handling urgently.
- 36 Renin: Sample collected either upright/active or resting/supine (3 hours lying).
- 37 Provide sample time and date of collection.
- 38 EDTA sample should not be separated: send whole blood.
- 39 Urgent samples have a 3 day TAT if genotype is required for prenatal diagnosis or two weeks TAT if urgent for other factors.
- 40 Informed Consent is required for these tests.
- 41 Recommendation for patient to attend Patient Reception for sample taking.
- 42 LGV can be added to a positive chlamydia sample using the same swab if requested within 4 days of receipt of result.



Alphabetical test index

TEST	CODE	SAMPLE REQS	TAT	PAGE
1,25 Vitamin D	D3	В	5-8 days	144
2-Butanone GC	BUTA	RU	7 days	156
2-Furoic Acid	2FA	RU	10 days	156
4th Generation HIV1& 2 Abs/p24 Ag (45 days post-contact)*	THIV	⊕ Tiny™	4 hours	94
5 HIAA	RU5H	PU ¹	5 days	27
5' Nucleotidase	5NT	В	5 days	27
5th Generation HIV1& 2 Abs/p24 Ag (45 days post-contact)*	THV5	⊕ Tiny™	4 hours	94
6-Thioguanine Nucleotides	TGN	AA	2 weeks	27
7 STI Profile by PCR (7 tests from 1 Sample)	PP12	FCRU/PCR/TPV/Semen	2 days	65,75
11 Deoxycorticosterone	DEOX	В	10 days	49
11 Deoxycortisol	11DC	(Frozen)	10 days	49
16S rRNA Bacterial Gene	16S	J	1 week	40
17 Hydroxyprogesterone	170H	В	5 days	49
18S rRNA Fungal Gene	18S	J	1 week	40
21 Hydroxylase Ab's	21HA	(Frozen)	10 days	27
Acetone – Blood	ACTB	A or (1)	2 weeks	156
Acetone – Urine	ACTU	RU	5 days	156
Acetylcholine Receptor Autoantibodies	ACRA	B 4	5 days	27
Acetylcholinesterase Isoenzymes	ACEI	AF	7 days	27
Acid Phosphatase – Total	APT	B	5 days	27
ACTH (Adreno Corticotrophic Hormone)	ACTH	(Plasma Frozen)41	1 day	49
Activated Protein C Resistance	APCR	(Frozen) ^{4,18}	3 days	37
Acute Viral Hepatitis Screen	AHSC	B	4 hours	77
ADAMTS-13 Activity	CP13	(Frozen)	3 days	37
ADAMTS-13 Antibody	A13A	(Frozen)	1 month	37
Adenosine Deaminase	AD	(A)/(B)/Fluid	3 weeks	27
Adenovirus by PCR	ADV	(A)/PCR/VS/SC	7 days	96
Adiponectin	ADIP	B	2 weeks	27
Adrenal Cortex Antibodies	ACTX	<u> </u>	2 days	77
Albumin	ALB	B	4 hours	27
Alcohol (Medical)	ALC0	G 1	4 hours	27
Alcohol (Urine)	UALC	RU	4 hours	27
Alcohol Profile	AP	ABB 6	5-7 days	153-154,156
Alcohol Profile 2	ALCP	A A B B G RU	5-7 days	153-154,156
Aldolase	ALD0	B	5 days	27
Aldosterone	ALDN	B	5 days	49
Aldosterone (Urine)	UALD	PU	5 days	49
Alk Phosphatase Isoenzymes	APIE	B	5 days	27
Alkaline Phosphatase	ALP	B	4 hours	27
Allergen Component Profiles				141
Allergy – Individual Allergens See list on page 137	ALLE	6	2 days	134

TEST	CODE	SAMPLE REQS	TAT	PAGE
Allergy Profile (Mediterranean)	ALMD	В	2 days	133-134
Allergy Profile (Middle East)	ALME	В	2 days	133-134
Allergy Profile (UK)	ALUK	В	2 days	133-134
Allergy Profile 1 (Food & Inhalants)	1A	88	2 days	134-135
Allergy Profile 2 (Inhalants)	2A	В	2 days	134-135
Allergy Profile 3 (Food)	3A	В	2 days	134-135
Allergy Profile 4 (Nuts & Seeds)	4A	В	2 days	134-135
Allergy Profile 5 (Children's Panel)	5A	В	2 days	134-135
Allergy Profile 6 (Shellfish)	6A	В	2 days	134, 136
Allergy Profile 7 (Finfish)	7A	В	2 days	134, 136
Allergy Profile 8 (Cereal – singles)	8A	В	2 days	134, 136
Allergy Profile 9 (Antibiotics)	9A	В	2 days	134, 136
Allergy Profile 10 (Insects)	10A	В	2 days	134, 136
Allergy Profile 11 (Combined Shellfish/Finfish)	11A	В	2 days	134,136
Allergy Profile 12 (Milk & Milk Proteins)	12A	В	2 days	134, 136
Allergy Profile 13 (Stone fruit/Rosaceae family)	13A	В	2 days	134, 136
Alpha 1 Antitrypsin (Serum)	A1AT	В	1 day	27
Alpha 1 Antitrypsin (Stool)	A1AF	RF	10 days	27
Alpha 1 Antitrypsin Genotype – PI*M, PI*S, PI*Z	GENE	A 9	4 weeks	27, 107
Alpha 1 Glycoprotein	OROS	(Frozen)	5 days	27
Alpha 1 Microglobulin	A1MG	RU 1,22	10 days	27
Alpha 2 Macroglobulins	A2MG	В	5 days	27
Alpha Feto Protein	AFP	В	4 hours	49, 99
Alpha Feto Protein (Maternal)	AFPM	В	4 hours	27
Alpha Gal Components (related to red meat)	ZZ37	В	2 days	141
ALT (Alanine Aminotransferase) (SGPT)	ALT	В	4 hours	27
Alternaria Components	ZZ1	В	2 days	141
Aluminium (Blood)	ALUM	()	7 days	27, 155
Aluminium (Urine)	ALUU	RU	1-2 weeks	156
Amenorrhoea Profile	AMEN	В	4 hours	49, 55
Amikacin Level (State dose)	AMIK	B ⁴	4 hours	129
Amino Acid (Serum/Plasma)	AMIN	В	7 days	27
Amino Acid Quantitative (Urine)	UAAQ	RU	7 days	27
Amino-Laevulinic Acid (Urine)	RUAL	100mls PU	5 days	27
Amitriptyline	AMTR	A ⁴	5 days	130
AML/ALL Molecular MRD – NPM1, PML-RARA, CBFB-MYH11, RUNX1-RUNX1T1, ETV6-RUNX1 – Contact Lab for further information	GENE	Bone Marrow/	5 days	107
Ammonia	AMM0	(Frozen) 15	4 hours	27
Amniocentesis – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	ABK	AF ⁹	5-15 days	107
Amniocentesis – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	APCC	AF ⁹	2-15 days	107
Amoebic (E. histolytica) Antibodies	AFAT	В	2 days	86

TEST	CODE	SAMPLE REQS	TAT	PAGE
Amoebic (E. histolytica) PCR	AMAG	RF	2 days	86
Amphetamines – Blood	AMPB	88	5 days	153
Amylase	AMY	В	4 hours	27
Amylase (Urine)	UAMY	CU	4 hours	27
Amylase Isoenzymes	AMYI	В	5 days	27
Amyloidosis (Amyloid A Protein)	SAA	В	5 days	27
Anaemia Profile	ANAE	AAB	2 days	36, 39
Anafranil (Clomipramine)	CHLO	A	7 days	130
ANCA (Anti-Neutrophil Cytoplasmic Abs)	ANCA	В	2 days	77
Andropause Profile	ANDP	88	8 hours	49, 54
Androstanediolglucoronide	ANDG	В	3 weeks	27
Androstenedione	ANDR	(Frozen)	4 days	49
Angiotensin II	ANG2	(Frozen)	2 weeks	27
Angiotensin Converting Enzyme	ACE	В	4 hours	27
Angiotensin Converting Enzyme – CSF	ACEF	CSF (Frozen)	2 weeks	27
Antenatal Profile	ANTE	A A 33 B B B G	3 days	36, 39
Anti-Actin Antibodies	AAA	В	5 days	77
Anti-Basal Ganglia Antibodies	ABGA	В	3 weeks	77
Anti-CCP Antibodies (RF)	CCP	В	2 days	77
Anti-Liver Cytosol Antibodies	ALCA	В	5 days	77
Anti-MOG [Myelin Oligodendrocyte Glycoprotein] Antibodies	AMOG	B	3 weeks	77
Anti-MUSK Antibodies	MUSK	В	2 weeks	77
Anti-Phosphatidylserine Antibodies	PHTS	В	5 days	77
Anti-Phospholipase A2 Receptor	AA2R	В	3 weeks	77
Anti-Ri Antibodies	RIAB	В	3 days	77
Anti-SLA (Soluble Liver Antigen) Abs	LSA	В	10 days	77
Anti-Xa Apixaban monitoring	APIX	(Frozen)*	3 days	37
Anti-Xa Fondapariux monitoring	FOND	(Frozen)*	3 days	37
Anti-Xa- LMWH monitoring	LMWX	(Frozen)*	3 days	37
Anti-Xa- Rivaroxaban monitoring	RIVA	(Frozen)*	3 days	37
Antidiuretic Hormone	ADH	(Plasma Frozen) ⁴	10 days	49
Antimony (Urine)	ANTI	RU 30	10 days	27
Antimullerian Hormone (AMH Plus)	AMH	В	4 hours	27, 49, 54
Antinuclear Antibodies (titre & pattern)	ANAB	B	2 days	77
Antistaphylolysin Titre (SGOT)	ASTT	В	3 days	77
Antistreptolysin Titre/ASOT	ASLT	В	2 days	77
Antisulfatide Antibodies	ASA	В	5 weeks	77
Antithrombin III	A111	(Frozen) 4,9,18	3 days	37
AP50 Alternative Hemolytic Complement	AP50	(Frozen)	2 weeks	27
Apolipoprotein A1	AP0A	B	3 days	27
Apolipoprotein B	APOB	B	3 days	27
Apolipoprotein C	APOC	B	3 months	27
Apolipoprotein E (12 hours fasting)	AP0E	(fasting)	5 days	27

TEST	CODE	SAMPLE REQS	TAT	PAGE
Apolipoprotein E genotype – E2, E3, E4	APEG	A 9	5 days	108
Apple Components	ZZ36	В	2 days	141
APTT/KCCT	KCCT	C 18	4 hours	36
Aquaporin 4 Antibodies (Neuromyelitis Optica)	AQUA	В	2 weeks	77
Arbovirus Antibodies/Abs	ARB0	B 9,14	3 weeks	96
Array CGH (Comparative Genomic Hybridisation)	CGH	CVS/AF/(A) (1) 9	10 days	108
Arsenic (Blood)	ARS	(A) or (1)	5 days	28,155
Arsenic (Urine)	ARSE	RU 30	5 days	28,156
Arylsulphatase A	ARYL	5,6	8 weeks	28
Ascariasis Serology	ASC	3	5 days	77
Ashkenazi Jewish Carrier Screen	ASHJ	A 9	4 weeks	108, 115, 123, 128
Aspartate Transaminase (AST) (SGOT)	AST	B	4 hours	28
Aspergillus Components	ZZ2	B	2 days	141
Aspergillus Precipitins	ASPP	В	5 days	40
Atypical Antibody Screen (handwritten tube label)	AASC	A 22,33	2 days	36
Atypical Pneumonia Screen	APS	B	2 days	96,98
Autoantibody Profile I	AUT0	В	2 days	77,85
Autoantibody Profile II	END0	В	2 days	77,85
Avian Precipitins (11 Species)	AVIA	В	5 days	77
Azoospermia – karyotype + cystic fibrosis screen + polyT(5T) + Y deletions	GRP	A (1) 9	10-15 days	108
Babesia Antibodies	BABE	В	3 weeks	77
Bancroftia/Oncerciasis/Filarial Antibodies	TFIF	B 14	2 weeks	96
BCR/ABL Quantitative – fusion gene sizes p190 + p210 – MUST arrive in the laboratory within 48 hours, before 12pm on Fridays	BCRA	AA 9	10 days	108
Becker Muscular Dystrophy – deletions/duplications	DND	A 9	10 days	108
Behcet's Disease – HLA Tissue Typing B*51	B51	A 9	10 days	108
Bence-Jones Protein	RBJP	1 x 30mls (RU)	5 days	28
Benzene	BENZ	J ^{1,6}	3 days	156
Beta 2 Glycoprotein 1 Abs	B2GP	<u> </u>	5 days	77
Beta 2 Microglobulin (Serum)	B2MG	В	2 days	28, 156
Beta 2 Microglobulin (Urine)	UB2M	RU	3 days	28, 156
Beta Carotene	CAR0	<u> </u>	5 days	144
Beta D Glucan	XBDG	<u> </u>	3 days	40
Beta HCG (Oncology)	HCGQ	<u> </u>	4 hours	99
Beta HCG (Quantitative)	QHCG	8	4 hours	49
Beta-Glucuronidase (Sly Disease)	BGLU	0 0 9,4	8 weeks	28
Bicarbonate	HCO3	<u>B</u>	4 hours	28
Bile Acids – Serum	BILE	<u>B</u>	4 hours	28
Bilharzia (Schistosome) Antibody Screen	BILH	B 14	10 days	86
Bilharzia (Schistosome) Antigen	SHAG	B	15 days	86

	TEST	CODE	SAMPLE REQS	TAT	PAGE
	Bilharzia (Urine)	USCH	RU 14	2 days	86
	Bilirubin (Direct/Indirect)	DBIL	В	4 hours	28
	Bilirubin (Total)	BILI	В	4 hours	28
	Bilirubin (Urine)	UBIL	RU	1 day	28
	Biotin	BIOS	В	1 week	144
	Biotinidase	BIOT	(Frozen plasma) ⁴	3 weeks	28
	Birch Components	ZZ3	В	2 days	141
	Bismuth	BISM	В	5 days	28
	BK Polyoma Virus by PCR	BKPV	⚠ / B /RU	5 days	96
NEW	Bleeding and platelet disorders NGS Panel (known familial mutations) – Contact lab	GENE	AA	6 weeks	108
NEW	Bleeding and platelet disorders NGS Panel (unknown familial mutations) – Contact lab	GENE	AA	12 weeks	108
	Blood Culture	BCUL	2 x BC 4	6 days +	40
	Blood Film Examination	FILM	A	1 day	36
	Blood Group	AB0	A 22,33	2 days	36
	BNP (NT-pro BNP)	BNP	В	4 hours	28,49
	Bone Alkaline Phosphatase	BALP	(Frozen)	2 weeks	28
	Bone Marrow (Aspirate)	BMAS	J ¹	14 days	38
	Bone Marrow (Trephine Biopsy)	BMI	J ¹	3 days	38
	Bone Screen	BONE	(3) CU	4 hours	28, 35
	Bone Screen (Bloods only)	BON2	В	4 hours	28, 35
	Borrelia Antibodies (Lyme Disease) IgG, IgM	BORR	B 9,14	2 days	77 ,86
	Borrelia Antibodies (Lyme Disease) IgM	BORM	В	2 days	77 ,86
	Borrelia Confirmation (Immunoblot)	BORC	B 9,14	10 days	77 ,86
	BRAF V600E mutation by PCR for Hairy Cell Leukaemia	GENE	Bone Marrow/	5 days	108
	Brazil Components	ZZ4	В	2 days	141
	Breast Cancer – BRCA1 + BRCA2 only gene sequencing + deletions/duplications	GENE	A	4 weeks	109
	Breast Cancer NGS Panel – full sequencing across 14 genes + deletions/duplications. Requires patient informed consent	GENE	A A 9,11	4 weeks	99, 109
	Bromide	BROM	В	3 days	156
	Brucella Serology	BRUC	B ⁹	2-3 weeks	77
	BUN (Blood Urea Nitrogen)	BUN	В	4 hours	28
	C-KIT D816V mutation by PCR for Mastocytosis	GENE	Bone Marrow/🙆	5 days	109
	C Peptide	CPEP	<u> </u>	3 days	49
	C Reactive Protein	CRP	В	4 hours	28
	C Reactive Protein (High Sensitivity)	HCRP	<u>B</u>	4 hours	28
	C1 Esterase Inhibitor	C1EI	B	5 days	77
	C1 Esterase: Function & Total	FC1E	(Plasma Frozen) 4,18	10 days	28
	C1q Binding Immune Complex	IMCP	<u>B</u>	5 days	28
	C3 Complement	C3	<u> </u>	4 hours	77

TEST	CODE	SAMPLE REQS	TAT	PAGE
C3/C4 Complement	COMP	В	4 hours	77
C4 Complement	C4	В	4 hours	77
CA 15-3	C153	В	4 hours	99
CA 19-9	C199	В	4 hours	99
CA 50	CA50	В	5 days	99
CA 72-4	C724	В	5 days	99
CA 125	C125	В	4 hours	99
Cadmium (Blood)	CADM	(A) or (H)	5 days	28,155
Cadmium (Urine)	URCD	RU 30	5 days	28,156
Calcitonin	CAT0	(Frozen)4	1 day	49
Calcium	CA	В	4 hours	28
Calcium (24 hour Urine)	UCA	PU	4 hours	28
Calcium/Creatinine Ratio	CACR	RU 😉	4 hours	28
Calprotectin	CALP	RF	5 days	77
Calprotectin/Elastase Profile	CEP	RF	5 days	77,85
Campylobacter Jejuni Antibodies	CJAB	В	5 days	77
Candida Antibodies	CANA	В	5 days	77
Candida Antigen	CCAG	В	5 days	77
Cannabinoids (Urine) Screen	CANN	RU	1 day	153
Carbamazepine (Tegretol)	CARB	В	4 hours	130
Carbapenemase producing organism screen	MDR	STM (rectal)	4-5 days ‡	40
Carbohydrate Deficient Glycoprotein	CDG	В	2 weeks	28
Carbohydrate Deficient Transferrin (CDT)	CDT	B ⁴	3 days	28
Carboxyhaemoglobin	СВНВ	A	1 week	36
Carcino Embryonic Antigen	CEA	В	4 hours	99
Cardiac Enzymes (not chest pain)	CENZ	B	4 hours	28
Cardiolipin Antibodies (IgG+IgM)	ACAB	В	2 days	77
Cardiovascular Risk Profile 1	PP10	88	3 days	28, 35
Cardiovascular Risk Profile 2	PP11	BBB 6 34	3 days	28, 35
Carnitine – Free & Total	CARN	(Frozen Plasma)	10 days	28
Carotenes	CAR0	B 13	5 days	144
Cartilage Antibodies	ACA	B	5 days	77
Cashew Components	ZZ35	В	2 days	141
Cat Components	ZZ5	B	2 days	141
Cat Scratch Fever (Bartonella IgG+IgM)	CAT	B	5 days	96
Catecholamines (Plasma)	CATE	(Plasma Frozen) ⁴	5 days	49
Catecholamines (Urine)	UCAT	PU ¹	5 days	49
CCP Antibodies (RF)	CCP	B	2 days	77
CD3/CD4/CD8	LYSS	A 10	1 day	38,94,96
CD16	CD16	A ⁴	1 day	38
CD19 B Cells	CD19	A ⁴	1 day	38
CD20	CD20	A 10	2 days	38
CD25	CD25	A 10	2 days	38
CD56	CD56	A ⁴	1 day	38

TEST	CODE	SAMPLE REQS	TAT	PAGE
CD57	CD57	A	1 day	38
Celery Components	ZZ6	B	2 days	141
Centromere Autoantibodies	CENT	B	2 days	77
Ceruloplasmin	CERU	B	1 day	28,144
	PAPT will			
Cervical Cytology	include	TPV	2-3 days	162
OUTO (Olegaical mathemas)	HPVH	(French) A	A days	77
CH50 (Classical pathway)	CH50	(Frozen) ⁴	4 days	77
Chagas Disease Serology (S.American Trypanosomiasis) T. Cruzi	CHGA	B 9,14	10 days	77
Chest Pain Profile	CPP	B	STAT	28, 35
Chikungunya Virus Abs	CHIK	B 9,14	10 days	96
Chlamydia (PCR swab)	SPCR	PCR	2 days	65
Chlamydia (Thin Prep)	TPCR	TPV	2 days	65,160
Chlamydia (Urine)	CPCR	FCRU	2 days	65
Chlamydia Species Specific (MIF) Ab Screen	CHAB	В	2 days	78,85
Chlamydia/Gonorrhoea (PCR Swab)	SCG	PCR	2 days	65
Chlamydia/Gonorrhoea (Rectal)	RSCG	PCR	2 days	65
Chlamydia/Gonorrhoea (Thin Prep)	TCG	TPV	5 days	65,160
Chlamydia/Gonorrhoea (Throat)	TSCG	PCR	2 days	65
Chlamydia/Gonorrhoea (Urine)	CCG	FCRU	2 days	65
Chlamydia/Gonorrhoea/Trichomonas by PCR	CCGT	FCRU/PCR/TPV	2 days	65
Chloride	CL	B	4 hours	28
Cholesterol	CHO	B	4 hours	28
Cholesterol (Familial Hypercholesterolaemia)	GENE	A A ⁹	4 weeks	28,112
Cholinesterase (Blood)	CHRC	•	5 days	28,156
Cholinesterase (Serum/Pseudo)	CHPS	B	4 hours	28, 156
Chromium (Blood)	CHRO	A	5 days	28,155
Chromium (Urine)	URCR	RU 30	10 days	29,156
Chromogranin A	CGA	B	5 days	29
Chromogranin A & B	MTAB	J ¹	3 weeks	29
Chromosome Analysis (Amniocentesis) – culture only	ACUL	AF ⁹	10-15 days	109
Chromosome Analysis (Amniocentesis) – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	ABK	AF ⁹	5-15 days	109
Chromosome Analysis (Amniocentesis) – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	APCC	AF ⁹	2-15 days	109
Chromosome Analysis (Blood)	KARY	() 9	8-18 days	110
Chromosome Analysis (Chorionic Villus) - rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (10-15 days)	СВК	CVS ⁹	5-15 days	110

TEST	CODE	SAMPLE REQS	TAT	PAGE
Chromosome Analysis (Chorionic Villus) – rapid PCR diagnosis for common aneuploidies (2 days) + culture (10-15 days)	CVPC	CVS 1,9	2-15 days	110
Chromosome Analysis (Chorionic Villus) – culture only	CVSC	CVS 1,9	10-15 days	110
Chromosome Analysis (Products of Conception) – BOBs rapid aneuploidy diagnosis for all chromosomes (5 days) + culture (25 days)	PBK	Placental Sample 1,9	5-25 days	110
Chromosome Analysis (Products of Conception) – reflex to BOBs testing if culture fails to grow	PROC	Placental Sample 1,9	20-25 days	110
Chromosome Analysis (Solid Tissue)	PROC	Fetal tissue 1,9	4-5 weeks	110
Chromosome Analysis (Stem Cells)	STEM/ SUSP	Culture/Fixed cells	Contact lab	110
Chronic Fatigue Syndrome Profile	VIP1	A+B10	5 days	78,85
Citrate (Blood)	CITR	B	5 days	29
Citrate (Urine)	UCIT	CU (Frozen)	5 days	29
CK (MB Fraction)	CKMB	B	4 hours	29
CK Isoenzymes	CKIE	B	5 days	29
Clobazam	CLOB	A	5 days	130
Clomipramine (Anafranil)	CHLO	A	7 days	130
Clonazepam	CLON	A	7 days	130
Clostridium Difficile Toxin by PCR	CLOS	RF*	2 days	40
CMV DNA (by PCR)	CMVP	A	5 days	96
CMV DNA by PCR (Semen)	SCVM	Semen	7 days	96
CMV DNA by PCR (Urine)	CMVU	RU	5 days	96
CMV Resistance	CMVR	(2 x 6mls)	21 days	96
Coagulation Profile 1	CLPF	() 18	4 hours	36,39
Coagulation Profile 2	CLOT	A C 18	4 hours	36,39
Cobalt (Blood)	COB	A	5 days	29
Cobalt (Serum)	COBB	В	5 days	29,155
Cobalt (Urine)	COBA	RU 30	5 days	29, 156
Cocaine (Urine) Screen	UCOC	RU	1 day	153
Coeliac Disease – HLA DQ2/DQ8 Genotype	Q2Q8	A ⁹	10 days	78, 82, 110
Coeliac/Gluten Profile 2	GSA2	AB	10 days	78,82
Coeliac/Gluten Sensitivity Profile	GSA	В	2 days	78,82
Coenzyme Q10	CQ10	<u> </u>	2 weeks	29
Cold Agglutinin	CAGG	J ¹	5 days	29
Collagen (Type I, II, IV) Antibodies	COAB	<u> </u>	10 days	29
Collagen Type 1 Cross-Linked N-Telopeptide – NTX	NTX	2nd EMU	2 weeks	29
Colloid Antigen-2 Antibodies	CA2A	B	2 weeks	78
Colorectal Cancer NGS Panel – full sequencing across 18 genes + deletions/duplications. Requires patient informed consent	GENE	A A 9,11	4 weeks	110
Comparative Genomic Hybridisation (Array CGH)	CGH	CVS/AF/(A) (1) 9	10 days	110

	TEST	CODE	SAMPLE REQS	TAT	PAGE
	Complement C1q	C1Q	B	5 days	29
	Complement C2	C2	В	10 days	29
	Complement C5	C5A	B	2 weeks	29
	Complement C6	C6	(Frozen)*	5 weeks	29
	Complement C7	C7	(Frozen)*	5 weeks	29
	Complement C8	C8	(Frozen)*	5 weeks	29
	Complement C9	C9	(Frozen)*	5 weeks	29
	Complement Factor H	FACH	3	3 weeks	29
	Complex PSA (Prostate Specific Ag)	CPSA	B	3 days	99
	Congenital Absence of Vas Deferens – karyotype + cystic fibrosis screen + polyT(5T) + Y deletions	GRP	A (1) 9	10-15 days	110
	Coombs (Direct Antiglobulin Test)	COOM	A	2 days	38
	Copper (Serum)	COPP	B	5 days	29,144,155
	Copper (Urine)	URCU	CU	5 days	29,156
	Cortisol	CORT	B	4 hours	49
	Cortisol (Urine)	UCOR	CU	5 days	49
	Cortisol Binding Globulin	CBG	(Frozen)	1 month	29
	Cotinine (Saliva)	SC0T	Saliva Kit ¹	1-2 weeks	156
	Cotinine (Serum)	COT	B	4 days	78
	Cotinine (Urine)	COTT	RU	2 days	78
NEW	COVID-19 (SARS-CoV-2) Abbott IgG Antibody	GCOV	SST / Serum 🕒 * (Venous)	24 hours	96
NEW	COVID-19 (SARS-CoV-2) RNA by PCR	NCOV	PCR Swab (nasal/pharyngeal)	48 hours	96
NEW	COVID-19 (SARS-CoV-2) Roche Elecsys Anti-SARS-CoV-2 Total Antibody	TCOV	SST/Serum (3 ** (Venous and Capillary)	24 hours	96
	Cow's Milk Components	ZZ7	B	2 days	141
	Coxsackie Antibodies (IgM)	COXM	B	10 days	96
	Creatine Kinase (CK, CPK)	CKNA	B	4 hours	29
	Creatinine	CREA	3	4 hours	29
	Creatinine (Urine)	UCR	CU	4 hours	29
	Creatinine Clearance	CRCL	₿ CU	4 hours	29
	Cri du Chat Syndrome - BOBs (5 days) + karyotype (15 days)	PBOB, Kary	CVS/AF/AF 9	5-15 days	110
	Cri du Chat Syndrome – BOBs only	PB0B	CVS/AF/(A) 9	5 days	110
	Crosslaps (Serum DPD)	SDPD	(Freeze within 24 hours)	4 days	29
	Cryoglobulins	CRY0	J ⁶	10 days	78
	Cryptococcal Antigen	CRYC	Serum or CSF	1 day	40
	Cryptosporidium	CRP0	RF	2 days	40
	Cryptosporidium Detection by PCR	CRPA	RF	2 days	86
	CSF for Microscopy and Culture	CSF	CSF	1-3 days	40
	CSF Screen by PCR	VPCR	CSF	2 days	96,98
	CT/GC/Trichomonas/Mgen (PCR Swab)	SGTM	PCR Swab	2 days	65,75
	CT/GC/Trichomonas/Mgen (Urine)	CGTM	FCRU	2 days	65,75
	Culture (Any site)	CULT		up to 5 days	40

TEST	CODE	SAMPLE REQS	TAT	PAGE
CVS PCR for common aneuploidies (2 days) + culture (10-15 days)	CVPC	CVS 9	2-15 days	110
CVSBOBs – rapid BOBs aneuploidy diagnosis for all chromosomes (3-5 days) + culture (10-15 days)	СВК	CVS ⁹	5-15 days	111
CVSBOBs only – rapid aneuploidy diagnosis for all chromosomes + common microdeletion syndromes	CB0B	CVS ⁹	5 days	111
Cyclic Amp (Urine)	CAMP	CU (Frozen)	5 days	29
Cyclosporin (Monoclonal)	CYCL	A	1 day	29
Cyfra 21-1	CY21	B	4 days	99
CYP450 2D6 Genotyping	TGEN	A 9	10 days	111
Cystatin C	CYCC	B	5 days	29
Cystic Fibrosis (139 common mutations) – reflex to Poly T when required	CFS	A 9	5 days	111
Cystine – Quantitative (Beta-CTX)	QCYS	PU	5 days	29
Cytomegalovirus (CMV-DNA) Amnio	CMVD	AF	5 days	96
Cytomegalovirus (IgG/IgM) Antibodies	CMV	B	4 hours	96
Cytomegalovirus (PCR) Urine	CMVU	RU	5 days	96
Cytomegalovirus Avidity	CMAV	B	10 days	96
Cytomegalovirus DNA (PCR)	CMVP	A	5 days	96
Cytomegalovirus IgM	CMVM	B	4 hours	96
D-Dimers (Fibrinogen Degradation Products)	DDIT	C 4	4 hours	36
Dengue Fever PCR	DPCR	(A) or (B) 9,14	2 weeks	96
Dengue Virus Serology	DENG	B 9,14	5 days	86
Deoxypyridinoline (DPD) – Serum	SDPD	(Freeze within 24 hours)	4 days	29
Deoxypyridinoline (DPD) – Urine	DPD	EMU	4 days	29
DHEA	DHEX	B	7-10 days	49
DHEA – Urine (Dehydroepiandrosterone)	UDHE	CU	3 weeks	49
DHEA Sulphate	DHEA	B	4 hours	49
Diabetic Profile 1	DIAB	A G	8 hours	29,35
Diabetic Profile 2	DIA2	A G RU	2 days	29,35
Diamine Oxidase Activity	DIAM	B	2 weeks	78
Diazepam (Valium)	DIAZ	A	7 days	130
DiGeorge Syndrome (22q11 & 10p14 deletion) – BOBs (5 days) + karyotype (15 days)	DGB, KARY	CVS/AF/(A) (1) 9	5-15 days	111
DiGeorge Syndrome (22q11 & 10p14) – BOBs only	DGB	CVS/AF/(A) 9	5 days	111
Digoxin	DIGO	B	4 hours	130
Dihydrotestosterone	DHT	88	7 days	49
Diphtheria Antibodies	DIPH	B	5 days	78
DL1-DL12 Screening Profiles				22-23
DNA (Double Stranded) Antibodies IgG	DNAA	В	2 days	78
DNA (Single Stranded) Antibodies	DNAS	B	5 days	78

TEST	CODE	SAMPLE REQS	TAT	PAGE
DNA Extraction & Storage - 3 years (longer upon request)	XDNA	A 9	20 days	111
DNA Identity Profile – 15 STR markers	DNAF	A 9	10 days	111
Dog Components	ZZ8	<u> </u>	2 days	141
Down Syndrome Risk Bloods only (Risk to be calculated by clinician)	HCGF/ PAPA	B	4 hours	49
Down Syndrome Risk Profile (2nd trimester) Quad	DRP	B DRP form ^{7,8}	2 days	49
Down Syndrome Risk Profile with risk calculation first trimester	DRP	B DRP form + image of scan ^{7,8}	2 days	49
Doxepin Level (Sinequan)	DOXE	A	10 days	156
Drugs of Abuse From Blood	DOAP	B	5 days	153-154
Drugs of Abuse Profile - Random Urine Sample/ No Chain of Custody	DOA	RU	2 days (5 days with LCMS/MS confirmation)	153-154
Drugs of Abuse Profile – Random Urine Sample/No Chain of Custody Plus Alcohol	DOA3	RU	2 days (5 days with LCMS/MS confirmation)	153-154
Drugs of Abuse Profile – With Chain of Custody	DOAL	RU/CoC Collection Containers ^{1,2}	2 days (5 days with LCMS/MS confirmation)	153-154
Drugs of Abuse Profile – Without Chain of Custody	DOAN	RU ²	2 days (5 days with LCMS/MS confirmation)	153-154
Duchenne Muscular Dystrophy – deletions/duplications only	DMD	A 9	10 days	111
DVT/Pre-travel Screen	DVT1	A A B ⁹	5 days	36, 39, 86-87, 111,128
Early CDT-Lung	CDTL	B	7 days	99
Early Detection Screen PCR/NAAT	STDX	(Vacutainer only)	3 days	65,75
Early Detection Screen PCR/NAAT with Syphilis	STXX	(3 A) 10mls or 2 x 4mls	3 days	65,75
Echinococcus (Hydatid) Antibodies	EFAT	B 9,14	5 days	78,86
Eczema Provoking Profile	ALEC	B	2 days	134
Egg Components	ZZ9	<u> </u>	2 days	141
Ehlers-Danlos Syndrome/Aneurysm/Connective Tissue Disorders NGS Panel – full sequencing across 46 genes + deletions/duplications	GENE	AA 9	5 weeks	111
Ehrlichiosis Antibodies	EHRL	B 9,14	10 days	78
Elastase (Faecal)	ELAS	RF	5 days	78
Elastase/Calprotectin Profile	CEP	RF	5 days	78,85
Electrolytes	ELEC	В	4 hours	29
Electrolytes (Urine)	UELE	CU	4 hours	29
ELF/Enhanced Liver Fibrosis	ELF	B	5-7 days	29
Endometrial Biopsy Immune Profiling	23RF	J (Contact Referrals)	2 weeks	52
Endomysial Antibodies (IgA)	AEAB	<u> </u>	2 days	78

TEST	CODE	SAMPLE REQS	TAT	PAGE
Enteric Organism Rapid Detection	EORD	RF	2 days	86-87
Eosinophil Cationic Protein	ECP	В	7 days	30
Epanutin (Phenytoin)	PHEN	В	4 hours	130
Epstein-Barr Virus Antibodies IgG/IgM	EBVA	В	2 days	96
Epstein-Barr Virus PCR	EBVQ	A	5 days	96
Erectile Dysfunction Profile	IMP0	ABB G	3 days	49, 54
Erythropoietin	ERY	3	4 days	38,130
ESR	ESR	A	4 hours	36
Essential Fatty Acid Profile (Red Cell)	EFAR	A 4	10 days	144
Ethosuximide	ETH0	A	7 days	130
Extractable Nuclear Antibodies (nRNP, Sm, Ro, La, Jo1, Sc170) CENP-B	ENA	B	2 days	78
Factor II Assay	FAC2	(Frozen) ^{9,18}	5 days	37
Factor II Prothrombin – G20210A mutation	FX2	A 9	5 days	112
Factor V Assay	FAC5	(Frozen) ^{9,18}	5 days	37
Factor V Leiden – G1691A mutation	FX5	A 9	5 days	112
Factor VII Assay	FAC7	(Frozen) ^{9,18}	5 days	37
Factor VIII Assay	FAC8	(Frozen) ^{9,18}	5 days	37
Factor VIII Inhibiting Antibody	F8IA	© © 18	2 weeks	37
Factor IX Assay	F1X	(Frozen) ^{9,18}	5 days	37
Factor IX Inhibiting Antibody	F9IA	© © 18	2 weeks	37
Factor X Assay	FX	(Frozen) 9,18	5 days	37
Factor XI Assay	FX1	(Frozen) 9,18	5 days	37
Factor XII Assay	FX11	(Frozen) 9,18	5 days	37
Factor XIII Assay	FA13	(Frozen) 9,18	5 days	37
Faecal Elastase	ELAS	RF	5 days	78
Faecal Fat (1 Day Collection)	TFFA	LF ⁶	5 days	30
Faecal Fat (3 day)	FFAT	LF ⁶	5 days	30
Faecal Lactoferrin	FLAC	RF	5 days	30
Faecal Occult Blood/FOB (immunochemical/FIT)	QFIT	QFIT	1 day	40
Faecal Sugar Chromatography	FCR0	RF (Frozen)	3 weeks	30
Faecal Urobilinogen	FUR0	RF	5 days	30
Familial Hypercholesterolaemia - LDLR + APOB + PCSK9 + LDLRAP1 screening	GENE	A A 9	4 weeks	112
Farmers Lung Precipitins	FARM	<u> </u>	5 days	78
Fasciola Hepatica Antibodies (Liver Fluke)	FASC	<u> </u>	2 weeks	78
FASTest Sexual Health Screening Tests				69
Fat Globules in Faeces	FGL0	RF	1 week	30
Female Hormone Profile	FIP	B	4 hours	49, 54
Ferritin	FERR	В	4 hours	30
Fibrinogen	FIB	(4,18	4 hours	36
Fibrotest (Liver Fibrosis)	FIBT	В	2 weeks	30
Filaria (Lymphatic and Non-Lymphatic) Antibodies	FIFA	3 9,14	10 days	86

TEST	CODE	SAMPLE REQS	TAT	PAGE
First Trimester Antenatal Screen (Risk to be calculated by requesting clinician)	HCGF/ PAPA	В	4 hours	49,55
Fish Components	ZZ10	B	2 days	141
FK506 (Tacrolimus/Prograf)	FK5	A 4	1-2 days	130
Flecainide (Tambocor)	FLEC	A	5 days	130
Fluid Culture	FLUD	SC	2-7 days	40
Fluid Cytology	CATF	Fluid ⁴	3 days	165
Fluid for Crystals	FLU2	SC	1 day	40
Fluoride (Urine)	UFL	RU	5 days	30
Fluoxetine (Prozac)	PR0Z	A 4	5 days	130
Folate (Red Cell)	RBCF	A	2 days	30,144
Folate (Serum)	F0LA	3	1 day	30
Fragile X Syndrome screen - FMR1 repeat analysis PCR (3 weeks) + Southern Blot (8 weeks) if required	GENE	AAA 9	3-8 weeks	113
Free Cortisol (Urine)	UCOR	CU	5 days	49
Free Fatty Acids	FFA	(Frozen) ¹	10 days	30
Free T3	FT3	В	4 hours	49
Free T4	FT4	В	4 hours	49
Fructosamine	FRUC	B	1 day	30
Fructose – Plasma	FRU	© 7 (Frozen)	5 days	30
FSH	FSH	В	4 hours	49
Full Blood Count	FBC	A	4 hours	36
Fungal ID + Sens	FUID	Fungal sample/STM	14 days	40
G6PD	G6PD	A	3 days	38
Gabapentin	GABA	B ⁴	5 days	130
Galactomanan (Aspergillus Antigen)	SGAL	В	2 weeks	40
Galactose-1-Phosphate Uridyltransferase	GAL1	5,6	2 weeks	30
Galactosidase – Alpha*	GALA	J*	6 weeks	30
Gall Stone Analysis	RSTA	STONE	10 days	30
Gamma GT	GGT	B	4 hours	30
Ganglionic Acetylcholine Receptor Antibodies	GACA	B	1 month	78
Ganglioside GM1, GD1B, GQ1B Abs	GANG	В	5 days	78
Gardnerella vaginalis by PCR	GVPC	FCRU/PCR/TPV	2 days	65,160
Gastric Parietal Autoantibodies	GASP	B	2 days	78
Gastrin	GAST	(Frozen)	5 days	30
Genetic Reproductive Profile (Male)	GRP	A (1) 9	10-15 days	113, 116, 128
GENETICS: TDL Genetics – see pages 101-128				101-128
Gentamicin Assay	GENT	B ⁴	4 hours	129
Giardia Serology	GIAR	B	5 days	78
Gliadin Antibodies (IgG) (deamidated)	AGAB	B	2 days	78
Globulin	GLOB	B	4 hours	30
Giomerular Basement Membrane Abs	AGBM	B	2 days	78
Glucagon	GLUG	J ¹	10 days	30

TEST	CODE	SAMPLE REQS	TAT	PAGE
Glucose	RBG	G	4 hours	30
Glucose Challenge Test/Mini-GTT	RBGM	G	1 day	129
Glucose Tolerance Test (Short)	GTTS	2x @ 2x RU	1 day	129
Glucose Tolerance Test (Extended Plus)	GTTX	7x 🕒 7x RU	1 day	129
Glucose Tolerance Test (Extended)	GTTE	5x 😉 5x RU	1 day	129
Glucose Tolerance with Growth Hormone	GTT+ GHDF	3x ³⁵ 3x 3 3x 3 3x 8	1 day	129
Glucose Tolerance with Insulin	GTTI	3x B 3x 🕞 3x RU	1 day	129
Glucose Tolerance Test/OGTT	GTT	3x 🕒 3x RU	1 day	129
Glutamic Acid Decarboxylase Antibodies (GAD 65)	GAD	В	5 days	78
Glutathione (Red Cell)	GLUR	O 5	5 days	144
Glutathione Peroxidase	GLPX	0	5 days	144
Gluten Allergy Profile	GLUT	ABB	10 days	78,82,134
Gluten Sensitivity Evaluation	GSA	B	2 days	78
Gluten/Coeliac Profile 2	GSA2	Q B	10 days	78
Glycan Determinants	ZZ27	B	2 days	141
Gonorrhoea (Culture)	GONN	CS	2-3 days	40,65
Gonorrhoea (PCR swab)	SGON	PCR	2 days	65
Gonorrhoea (Thin Prep)	TGON	TPV	2 days	65
Gonorrhoea (Urine)	CGON	FCRU	2 days	65
Granulocyte Immunology	GRIM	AA	2 weeks	78
Group B Strep	GBSX	2 x STM	3-4 days	40
Growth Hormone (Fasting)	GH	B 7,35	4 hours	49
Gut Hormone Profile	GUTP	(Frozen within 15 minutes) ⁴¹	3 weeks	49
H. pylori Antibodies (IgG)	HBPA	B	2 days	78
H. pylori Antigen (Breath)	HBQT	J	5 days	78
H. pylori Antigen (Stool)	HBAG	RF	3 days	78
H. pylori Culture	HPCU	J	3 weeks	40
Haematology Profile	PP3	A	4 hours	36, 39
Haemochromatosis – HFE common mutations C282Y + H63D	HMD	A 9	3 days	30,113
Haemoglobin	НВ	A	4 hours	36
Haemoglobin Electrophoresis	HBEL	A	4 days	38
Haemophilus B Influenzae Antibodies	HINF	3	7 days	78
Haemophilus ducreyi by PCR	DUCR	PCR	7 days	65
Haemosiderin (Urine)	HSID	EMU	2 weeks	30
Hams Test for PNH (CD59)	HAMS	J 34,5	5 days	38
Hantavirus Serology	HANV	B 9	10 days	96
Haptoglobin	HAPT	8	5 days	30
Harmony® Prenatal Test (Non-Invasive Prenatal Testing) – common aneuploidy screening from maternal blood	NIPT	J/Special tubes ¹	3-5 days	113

Rarmony® Prenatal Testing - Common aneuploidy screening from maternal boot discussion 13 3 5 days 13 13 13 13 13 13 13 1	TEST	CODE	SAMPLE REQS	TAT	PAGE
HbL fc	Testing) - common an uploidy screening from	NIPQ	J/Special tubes ¹	3-5 days	113
HDL Cholesterol HDL G	Hazelnut Components	ZZ11	B	2 days	141
HDLF 1	HbA1c	GHB	A	6 hours	30
HE4 + ROMA	HDL Cholesterol	HDL	B	4 hours	30
	HDL2 & HDL3 Fractions	HDLF	В	3 weeks	30
Hepatitis A (IgM)		HE4	В	1 day	99
Hepatitis A Immunity (IgG/IgM) HAIM 3 4 hours 89-90 Hepatitis A Profile HEPA 3 4 hours 65,90 Hepatitis A RNA by PCR HAVR 3 or 3 3 weeks 30 Hepatitis B & C Profile ABC 3 4 hours 90 Hepatitis B & C Profile ABC 3 4 hours 90 Hepatitis B (PCR) Genotype BGEN 4 7 days 90 Hepatitis B Core Antibody - IgM HBCM 3 4 hours 90 Hepatitis B Core Antibody - Total HBC 3 4 hours 90 Hepatitis B DNA (Viral load) DNAB 5 5 days 90 Hepatitis B Drofile HEPB 3 4 hours 89-90 Hepatitis B Profile HEPB 3 4 hours 89-90 Hepatitis B DNA (Viral load) DNAB 4 hours 65,90 Hepatitis B DNA (Viral load) HEPB 3 4 hours 65,90 Hepatitis B Resistant Mutation HBRM 4 0 or 3	Hepatitis (Acute) Screen	AHSC	3	4 hours	90
Hepatitis A Profile	Hepatitis A (IgM)	HAVM	3	4 hours	90
Hepatitis A RNA by PCR	Hepatitis A Immunity (IgG/IgM)	HAIM	B	4 hours	89-90
Hepatitis A, B & C Profile	Hepatitis A Profile	HEPA	В	4 hours	65,90
Hepatitis B 'e' Antigen and Antibody HEPE 3 4 hours 90 Hepatitis B (PCR) Genotype BGEN 3 7 days 90 Hepatitis B Core Antibody − IgM HBCM 3 4 hours 90 Hepatitis B Core Antibody − Total HBC 3 4 hours 90 Hepatitis B DNA (Viral load) DNAB 3 5 days 90 Hepatitis B Immunity HBIM 3 4 hours 89-90 Hepatitis B Profile HEPB 3 4 hours 90 Hepatitis B Profile HEPB 3 4 hours 90 Hepatitis B Resistant Mutation HBRM 3 or 3 7 days 90 Hepatitis B Surface Antigen Hepatitis C Abs Confirmation (RIBA) RIBA 3 5 days 90 Hepatitis C Confirmation (RIBA) RIBA 3 5 days 90 Hepatitis C Contigue Hepatitis C Genotype CGEN 4 hours 65,90 Hepatitis C Guantification (Viral Load) PPCR 3 or 3 5 days 90 Hepatitis Delta Antibody HEPD 3 5 days 90 Hepatitis Delta Indiana HDAG 3 5 days 90 Hepatitis Delta Indiana HEPP 3 2 weeks 90 Hepatitis Delta Indiana HEPP 3 2 weeks 90 Hepatitis E (PCR) HEPP 4 2 weeks 90 Hepatitis E (PCR) HEPP 5 2 days 96 Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 96 Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 96 Herpes Simplex I/II by PCR (Wine) HERD FCRU/PCR/TPV 5 days 96 HFT gene (Haemochromatosis) − common mutations C282Y + H63D HITT HITT 4 (Frozen plasma) 5 days 78 Histamine (Urine) HITT RU 5 days 5 days 78	Hepatitis A RNA by PCR	HAVR	(A) or (B)	3 weeks	90
Hepatitis B (PCR) Genotype BGEN 3 7 days 90 Hepatitis B Core Antibody – IgM HBCM 3 4 hours 90 Hepatitis B Core Antibody – Total HBC 3 4 hours 90 Hepatitis B DNA (Viral load) DNAB 3 5 days 90 Hepatitis B Immunity HBIM 3 4 hours 89-90 Hepatitis B Profile HEPB 3 4 hours 90 Hepatitis B Resistant Mutation HBRM 3 or 6 7 days 90 Hepatitis B Surface Antigen AUAG 3 4 hours 65,90 Hepatitis C Austriace Antigen AUAG 3 4 hours 65,90 Hepatitis C Austriace Antigen HEPC 3 4 hours 65,90 Hepatitis C C Genotype GEN 4 5 days 90 Hepatitis C Quantification (Viral Load) QPCR 4 hours 5 days 90 Hepatitis Delta Antibody HEPD 3 5 days 90 Hepatitis Delta Antigen HDAG	Hepatitis A, B & C Profile	ABC	B	4 hours	90
Hepatitis B Core Antibody - IgM	Hepatitis B 'e' Antigen and Antibody	HEPE	B	4 hours	90
Hepatitis B Core Antibody – Total HBC ③ 4 hours 90 Hepatitis B DNA (Viral load) DNAB ⑤ 5 days 90 Hepatitis B Immunity HBIM ⑥ 4 hours 89-90 Hepatitis B Profile HEPB ⑥ 4 hours 90 Hepatitis B Resistant Mutation HBRM ⑥ of ⑥ 7 days 90 Hepatitis B Surface Antigen AUAG ⑥ 4 hours 65,90 Hepatitis C Abs Confirmation (RIBA) RIBA ⑥ 5 days 90 Hepatitis C Genotype CGEN ⑥ 5 days 90 Hepatitis C Genotype CGEN ⑥ 5 days 90 Hepatitis C Quantification (Viral Load) QPCR ⑥ 5 days 90 Hepatitis Delta Antibody HEPD ⑥ 5 days 90 Hepatitis Delta RNA DRNA ② (Frozen plasma) 5 days 90 Hepatitis E IgG/IgM HBE ⑥ 5 days 90 Hepatitis G (PCR) HEPG	Hepatitis B (PCR) Genotype	BGEN	A	7 days	90
Hepatitis B DNA (Viral load) DNAB S days 90 Hepatitis B Immunity HBIM 3 4 hours 89-90 Hepatitis B Profile HEPB 3 4 hours 90 Hepatitis B Resistant Mutation HBRM 3 or 3 7 days 90 Hepatitis B Surface Antigen AUAG 3 4 hours 65,90 Hepatitis C Abs Confirmation (RIBA) RIBA 3 5 days 90 Hepatitis C Antibodies HEPC 3 4 hours 65,90 Hepatitis C Genotype CGEN 3 5 days 90 Hepatitis C Quantification (Viral Load) QPCR 3 5 days 90 Hepatitis Delta Antibody HEPD 3 5 days 90 Hepatitis Delta RNA DRNA 3 (Frozen plasma) 5 days 90 Hepatitis E (PCR) EHEP 3 2 weeks 90 Hepatitis E (PCR) HEPG 3 (Frozen plasma) 2 weeks 90 Hepatitis E (PCR) HEPG 4 (Frozen plasma)	Hepatitis B Core Antibody – IgM	HBCM	B	4 hours	90
Hepatitis B Immunity HBIM 3 4 hours 90 Hepatitis B Profile HEPB 3 4 hours 90 Hepatitis B Resistant Mutation HBRM A or 3 7 days 90 Hepatitis B Surface Antigen AUAG 3 4 hours 65,90 Hepatitis C Abs Confirmation (RIBA) RIBA 3 5 days 90 Hepatitis C Genotype CGEN A hours 65,90 Hepatitis C Quantification (Viral Load) QPCR A or 3 5 days 90 Hepatitis C Quantification (Viral Load) QPCR A or 3 5 days 90 Hepatitis Delta Antibody HEPD 3 5 days 90 Hepatitis Delta Antibody HEPD 3 5 days 90 Hepatitis Delta Antibody HEPD 3 5 days 90 Hepatitis Delta RNA DRNA A (Frozen plasma) 5 days 90 Hepatitis E (PCR) Hepatitis E (PCR) HEPP A 2 weeks 90 Hepatitis G (PCR) HEPP A 2 weeks 90 Hepatitis G (PCR) HEPP A 2 days 90 Hepres Simplex I/II Antibody Profile (IgG) HERP A 2 days 96 Herpes Simplex I/II Antibody Profile (IgG) HERP A 2 days 96 Herpes Simplex I/II by PCR (Swab) HERB FCRU/PCR/TPV 5 days 65,96,160 Herpes Simplex I/II IgM HERM A 2 days 96 HFE gene (Haemochromatosis) - common mutations C282Y + H63D HMD A 9 A 3 days 38,114 Hirsutism Profile HIRP A 4 hours 49,55 Histamine (Blood) HITT A (Frozen plasma) 5 days 78	Hepatitis B Core Antibody – Total	HBC	B	4 hours	90
Hepatitis B Profile HEPB 3 4 hours 90 Hepatitis B Resistant Mutation HBRM 3 or 3 7 days 90 Hepatitis B Surface Antigen AUAG 3 4 hours 65,90 Hepatitis C Abs Confirmation (RIBA) RIBA 3 5 days 90 Hepatitis C Antibodies HEPC 3 4 hours 65,90 Hepatitis C Genotype CGEN 4 hours 65,90 Hepatitis C Genotype CGEN 5 days 90 Hepatitis C Quantification (Viral Load) QPCR 3 or 3 5 days 90 Hepatitis Delta Antibody HEPD 3 5 days 90 Hepatitis Delta Antigen HDAG 3 5 days 90 Hepatitis Delta RNA DRNA 4 (Frozen plasma) 5 days 90 Hepatitis E (PCR) EHEP 3 2 weeks 90 Hepatitis E (PCR) HEPG 4 (Frozen plasma) 2 weeks 90 Herpes Simplex I/II lantibody Profile (IgG) HERP 3 2 d	Hepatitis B DNA (Viral load)	DNAB	A	5 days	90
Hepatitis B Resistant Mutation HBRM Or ○ 7 days 90 Hepatitis B Surface Antigen AUAG B 3 4 hours 65,90 Hepatitis C Abs Confirmation (RIBA) RIBA B 5 days 90 Hepatitis C Antibodies HEPC B 4 hours 65,90 Hepatitis C Genotype CGEN A 5 days 90 Hepatitis C Quantification (Viral Load) PCR D 7 G 5 days 90 Hepatitis Delta Antibody HEPD B 5 days 90 Hepatitis Delta Antibody HEPD B 5 days 90 Hepatitis Delta Antigen HDAG B 5 days 90 Hepatitis Delta RNA DRNA C (Frozen plasma) F days 90 Hepatitis E (PCR) HEPP A 2 weeks 90 Hepatitis E (PCR) HEPP A 2 weeks 90 Hepatitis E (PCR) HEPP A 2 weeks 90 Hepatitis G (PCR) HEPP A 2 weeks 90 Hepatitis G (PCR) HEPG A (Frozen plasma) 2 weeks 90 Herpas Simplex I/II Antibody Profile (IgG) HERP B 2 days 96 Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 96 Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV 5 days 96 HFE gene (Haemochromatosis) - common mutations C282Y + H63D HIRD A 9 3 days 78 Histamine (Blood) HITT A (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Hepatitis B Immunity	HBIM	B	4 hours	89-90
Hepatitis B Resistant Mutation HBRM	Hepatitis B Profile	HEPB	B	4 hours	90
Hepatitis C Abs Confirmation (RIBA) RIBA ☐ 5 days 90 Hepatitis C Antibodies HEPC ☐ 4 hours 65,90 Hepatitis C Genotype CGEN ☐ 5 days 90 Hepatitis C Quantification (Viral Load) QPCR ☐ or ☐ 5 days 90 Hepatitis Delta Antibody HEPD ☐ 5 days 90 Hepatitis Delta Antigen HDAG ☐ 5 days 90 Hepatitis Delta Antigen HDAG ☐ 5 days 90 Hepatitis Delta RNA DRNA ☐ (Frozen plasma) 5 days 90 Hepatitis E (PCR) HEPP ☐ 2 weeks 90 Hepatitis E (PCR) HEPP ☐ 3 5 days 90 Hepatitis E (PCR) HEPP ☐ 2 weeks 90 Hepatitis G (PCR) HEPP ☐ 3 2 days 90 Hepatitis G (PCR) HEPP ☐ 3 2 days 90 Herpes Simplex I/II Antibody Profile (IgG) HERP ☐ 2 days 96 Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 65,96 Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV 5 days 65,96,160 Herpes Simplex I/II IgM HERM ☐ 2 days 96 HERPE Gays HERPE Gays HIRPE HIRP ☐ 4 hours HIRP ☐ 4 hours HIRP ☐ 5 days 78 Histamine (Blood) HITT ☐ (Frozen plasma) HITU RU 5 days 78		HBRM	A or B	7 days	90
Hepatitis C Antibodies HEPC	Hepatitis B Surface Antigen	AUAG	B	4 hours	65,90
Hepatitis C Genotype CGEN Or ○ 5 days 90 Hepatitis C Quantification (Viral Load) PEPD OR ○ 6 or ○ 5 days 90 Hepatitis Delta Antibody HEPD OR ○ 5 days 90 Hepatitis Delta Antigen HDAG OR ○ 5 days 90 Hepatitis Delta Antigen HDAG OR ○ 5 days 90 Hepatitis Delta RNA DRNA OR (Frozen plasma) OR O	Hepatitis C Abs Confirmation (RIBA)	RIBA	B	5 days	90
Hepatitis C Quantification (Viral Load) Hepatitis Delta Antibody HEPD Solays 90 Hepatitis Delta Antibody HEPD Solays 90 Hepatitis Delta Antibody HEPD Solays 90 Hepatitis Delta Antigen HDAG Solays 90 Hepatitis Delta RNA DRNA A (Frozen plasma) Solays 90 Hepatitis E (PCR) HEPP Solays 90 Hepatitis E (PCR) HEPP Solays 90 Hepatitis E (PCR) HEPG A (Frozen plasma) Solays 90 Hepatitis G (PCR) HEPG A (Frozen plasma) Solays 90 Herpes Simplex I/II Antibody Profile (IgG) HERP Solays 90 Herpes Simplex I/II by PCR (Swab) HERS PCR Solays Solays 96 Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV Solays S	Hepatitis C Antibodies	HEPC	B	4 hours	65,90
Hepatitis Delta Antibody HEPD Solvanor Stays Hepatitis Delta Antigen HDAG Solvanor Stays Hepatitis Delta Antigen HDAG Solvanor Stays Hepatitis Delta RNA DRNA A (Frozen plasma) Solvanor Solvan	Hepatitis C Genotype	CGEN	A	5 days	90
Hepatitis Delta Antigen HDAG GO	Hepatitis C Quantification (Viral Load)	QPCR	A or B	5 days	90
Hepatitis Delta RNA DRNA A (Frozen plasma) 5 days 90 Hepatitis E (PCR) Hepatitis E (PCR) HEPG A (Frozen plasma) 5 days 90 Hepatitis G (PCR) HEPG A (Frozen plasma) 2 weeks 90 Herpes Simplex I/II Antibody Profile (IgG) HERP C 2 days 96 Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 65,96 Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV 5 days 65,96,160 Herpes Simplex I/II IgM HERM C 2 days 96 HFE gene (Haemochromatosis) common mutations C282Y + H63D HMD A 9 3 days 38,114 Hirsutism Profile HIRP G 4 hours 49,55 Histamine (Blood) HITT A (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Hepatitis Delta Antibody	HEPD	B	5 days	90
Hepatitis E (PCR) Hepatitis E IgG/IgM HBE G: 5 days 90 Hepatitis G (PCR) HEPG A: (Frozen plasma) 2 weeks 90 Herpes Simplex I/II Antibody Profile (IgG) HERP G: 2 days 96 Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 65,96 Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV 5 days 65,96,160 Herpes Simplex I/II IgM HERM G: 2 days 96 HFE gene (Haemochromatosis) − common mutations C282Y + H63D HMD A: 9 A days 38,114 Hirsutism Profile HIRP G: 4 hours 49,55 Histamine (Blood) HITT A: (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Hepatitis Delta Antigen	HDAG	B	5 days	90
Hepatitis E IgG/IgM HBE ⑤ 5 days 90 Hepatitis G (PCR) HEPG ⑥ (Frozen plasma) 2 weeks 90 Herpes Simplex I/II Antibody Profile (IgG) HERP ⑥ 2 days 96 Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 65,96,160 Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV 5 days 65,96,160 Herpes Simplex I/II IgM HERM ⑥ 2 days 96 HFE gene (Haemochromatosis) – common mutations C282Y + H63D HMD ⑥ ③ 3 days 38,114 Hirsutism Profile HIRP ⑥ 4 hours 49,55 Histamine (Blood) HITT ⑥ (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Hepatitis Delta RNA	DRNA	(Frozen plasma)	5 days	90
Hepatitis E IgG/IgM HBE ⑤ 5 days 90 Hepatitis G (PCR) HEPG ⑥ (Frozen plasma) 2 weeks 90 Herpes Simplex I/II Antibody Profile (IgG) HERP ⑥ 2 days 96 Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 65,96,160 Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV 5 days 65,96,160 Herpes Simplex I/II IgM HERM ⑥ 2 days 96 HFE gene (Haemochromatosis) – common mutations C282Y + H63D HMD ⑥ ③ 3 days 38,114 Hirsutism Profile HIRP ⑥ 4 hours 49,55 Histamine (Blood) HITT ⑥ (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Hepatitis E (PCR)	EHEP	A	2 weeks	90
Hepatitis G (PCR) HEPG ⚠ (Frozen plasma) 2 weeks 90 Herpes Simplex I/II Antibody Profile (IgG) HERP ③ 2 days 96 Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 65,96 Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV 5 days 65,96,160 Herpes Simplex I/II IgM HERM ⑥ 2 days 96 HFE gene (Haemochromatosis) – common mutations C282Y + H63D HMD ⑥ ³ 3 days 38,114 Hirsutism Profile HIRP ⑥ 4 hours 49,55 Histamine (Blood) HITT ② (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Hepatitis E IgG/IgM	HBE		5 days	90
Herpes Simplex I/II by PCR (Swab) HERS PCR 5 days 65,96 Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV 5 days 65,96,160 Herpes Simplex I/II IgM HERM ③ 2 days 96 HFE gene (Haemochromatosis) – common mutations C282Y + H63D HMD ▲ ● 3 days 38,114 Hirsutism Profile HIRP ⑤ 4 hours 49,55 Histamine (Blood) HITT ▲ (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78		HEPG	(Frozen plasma)	2 weeks	90
Herpes Simplex I/II by PCR (Urine) HERD FCRU/PCR/TPV 5 days 65,96,160 Herpes Simplex I/II IgM HERM ⑤ 2 days 96 HFE gene (Haemochromatosis) – common mutations C282Y + H63D HMD ⑥ 3 days 38,114 Hirsutism Profile HIRP ⑥ 4 hours 49,55 Histamine (Blood) HITT ⑥ (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Herpes Simplex I/II Antibody Profile (IgG)	HERP	B	2 days	96
Herpes Simplex I/II IgM HERM € 2 days 96 HFE gene (Haemochromatosis) – common mutations C282Y + H63D HMD ♠ • 3 days 38,114 Hirsutism Profile HIRP € • 4 hours 49,55 Histamine (Blood) HITT ♠ (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Herpes Simplex I/II by PCR (Swab)	HERS	PCR	5 days	65,96
Herpes Simplex I/II IgM HERM ③ 2 days 96 HFE gene (Haemochromatosis) – common mutations C282Y + H63D HMD ♠ 9 3 days 38,114 Hirsutism Profile HIRP ⑥ 4 hours 49,55 Histamine (Blood) HITT ♠ (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Herpes Simplex I/II by PCR (Urine)	HERD	FCRU/PCR/TPV	5 days	65,96,160
common mutations C282Y + H63D HMD 3 days 38,114 Hirsutism Profile HIRP 3 days 4 hours 49,55 Histamine (Blood) HITT (Frozen plasma) 5 days 78 Histamine (Urine) HITU RU 5 days 78	Herpes Simplex I/II IgM	HERM	B	2 days	96
Histamine (Blood)HITT(2) (Frozen plasma)5 days78Histamine (Urine)HITURU5 days78	,	HMD	A 9	3 days	38,114
Histamine (Urine) HITU RU 5 days 78	Hirsutism Profile	HIRP	B	4 hours	49,55
Histamine (Urine) HITU RU 5 days 78	Histamine (Blood)	HITT	(Frozen plasma)	5 days	78
Histamine Releasing Urticaria Test CURT 10-14 days 78, 134	Histamine (Urine)	HITU		5 days	78
	Histamine Releasing Urticaria Test	CURT	B	10-14 days	78, 134

TEST	CODE	SAMPLE REQS	TAT	PAGE
Histone Antibodies	HISA	B	5 days	78
Histopathology				166-170
Histoplasmosis	HISP	<u>B</u>	10 days	78
HIV 1 & 2/p24Ag	HDU0	B	4 hours	65
HIV 1 Proviral DNA	HIVP	(A) Whole blood	7 days	94
HIV Confirmation of Positive Screens (Using 3 methodologies)	HIVC	B	1 day	94
HIV Rapid RNA HIV-1 QUALITATIVE	LHIV	(Vacutainer only)	4 hours	65,76, 94-95
HIV Rapid RNA HIV-1 QUANTITATIVE	RHIV	(Vacutainer only)	4 hours	65,76, 94-95
HIV Screening: HIV1& 2 Abs, p24 (5th Gen)	HIV5	<u> </u>	4 hours	94-95
HIV Screening: HIV1& 2 Abs/p24 Ag (4th Gen)	HDU0	B	4 hours	94
HIV Therapeutic Drug Monitoring	TDM	J	21 days	94
HIV-1 Genotypic Resistance (Integrase)	INTE	(2x6ml whole blood)	21 days	94
HIV-1 Genotypic Resistance (RT & Protease)	HIVD	(2x6ml whole blood)	21 days	94
HIV-1 RNA Viral Load by PCR	HIV1	(2x6ml whole blood)	3 days	94
HIV-1 Tropism	TRPM	(2x6ml whole blood)	28 days	94
HIV-2 RNA by PCR	HIV2	<u> </u>	21 days	94
HIV/HBV/HCV (Early detection by PCR/NAAT) with Syphilis	STXX	10mls or 2 x 4mls	3 days	65,75
HIV/HBV/HCV Screen by PCR/NAAT (10 days post exposure)	STDX	A 10mls or 2 x 4mls (Vacutainer only)	3 days	65,75, 94-96
HLA B*57:01	HL57	A 9	10 days	94
HLA B27	HLAB	A 9	3 days	79
HLA DQ Alpha Antigens	10RF	AA	2 weeks	52
HLA DQ Beta Antigens	11RF	AA	2 weeks	52
HLA DR Antigens	9RF	AA	2 weeks	52
HLA Tissue Typing A	HLA	A 9	10 days	114
HLA Tissue Typing A+B	HLBA	A 9	10 days	114
HLA Tissue Typing A+B+C (Class I)	HABC	A 9	10 days	114
HLA Tissue Typing A/B/DRB1/3/4/5	HLAF	A 9	10 days	114
HLA Tissue Typing A/B/DRB1/3/4/5/DQB1	HLF	A 9	10 days	114
HLA Tissue Typing A/B/C/DRB1/3/4/5/DQB1 (Class I & II)	HLFC	A 9	10 days	114
HLA Tissue Typing B	HLB	A 9	10 days	114
HLA Tissue Typing B*27 only	HLAB	A 9	3 days	114
HLA Tissue Typing B*51 (Behcet's Disease)	B51	A 9	10 days	114
HLA Tissue Typing B*57:01 high resolution	HL57	A 9	10 days	114
HLA Tissue Typing C	HLC	A 9	10 days	114
HLA Tissue Typing Coeliac Disease – DQ2/DQ8	Q2Q8	A 9	10 days	114
HLA Tissue Typing DRB1/3/4/5	DRB1	A 9	10 days	114
HLA Tissue Typing DRB1/3/4/5/DQB1 (Class II)	HLDQ	A 9	10 days	114
HLA Tissue Typing Narcolepsy – DQB1*06:02	GENE	A 9	4 weeks	114
Homocysteine (Quantitative)	НОМО	B 17	1 day	30

TEST	CODE	SAMPLE REQS	TAT	PAGE
Homocysteine (Urine)	HCYS	CU	2 weeks	30
Homovanillic Acid (HVA)	HVA	PU	5 days	30
House Dust Mite Components	ZZ12	B	2 days	141
HPV (DNA and reflexed mRNA)	HPVT	TPV	3 days	65,162
HPV (HR mRNA types 16, 18 + others)	HPVH	TPV	2-3 days	65,162
HPV (Individual low & high risk DNA subtypes)	HP20	TPV/PCR	2-3 days	65, 162
HPV Individually Typed High Risk DNA Subtypes	HPVZ	Self-collection kit	10 days	163
HPV mRNA (All High Risk Subtypes)	HPVY	Self-collection kit	3 days	163
HRT Profile 1	HRT	В	4 hours	49, 55
HRT Profile 2	HRT2	BG	4 hours	49, 55
HTLV 1& 2 Abs. (Human T Lymphotropic Virus Type I-II)	HTLV	3	8 hours	94
HTLV by PCR	HTLP	Whole blood	21 days	94
Hughes Syndrome	LUPA	B C 4,18	2 days	37
Human Anti-Mouse Antibodies	HAMA	(Frozen)	6 weeks	79
Human Herpes Virus – 6 by PCR	HHV6	A	5 days	96
Human Herpes Virus – 8 (IgG)	HHV8	B	10 days	96
Human Herpes Virus – 8 by PCR	HV8D	A	5 days	96
Human Parvovirus B19 – DNA	PCRP	A	2 weeks	96
HVS	HVS	STM ^{‡‡‡‡}	2-4 days	40
Hyaluronic Acid	AHT	В	1 week	30
Hydroxybutyrate Dehydrogenase	HBD	(Frozen)	1 week	30
Hydroxyprolene	UHYD	CU	2 weeks	30
Identity Profile (DNA) – 15 STR markers	DNAF	A 9,11	10 days	115
IgE (Total)	IGE	B	1 day	79
IGF-1 (Somatomedin)	SOMA	(Frozen)4	1 day	50
IGF-BP3	IGF3	(Frozen)4	5 days	50
IgG Subclasses	IGSC	B	4 days	30
Imipramine	IMIP	A 4	4 days	130
Immune Function Evaluation (Total)	TIE	A + B 5,10	7 days	36
Immune-Complexes	IMCP	<u>B</u>	5 days	79
Immunoglobulin A	IGA	В	4 hours	30
Immunoglobulin D	IGD	<u> </u>	5 days	30
Immunoglobulin E – Total	IGE	В	1 day	30
Immunoglobulin G	IGG	<u> </u>	4 hours	31
Immunoglobulin M	IGM	В	4 hours	31
Immunoglobulins (IgG, IgM, IgA)	IMM	<u> </u>	4 hours	31,79
Impotence Profile	IMP0	ABBG	3 days	50,54
Inhibin A	INIA	3	1 month	50
Inhibin B	INIB	(Day 3 of cycle, frozen)	5 days	50
Inner Ear Antigen (Ottoblot)	IEA	<u> </u>	3 weeks	79
INR	PTIM	() 18	4 hours	36
Insect/Worm/Ova/Cysts	FLEA	Send Specimen 9,14	5 days	86

TEST	CODE	SAMPLE REQS	TAT	PAGE
Insulin	INSU	B	4 hours	50
Insulin Antibodies	INAB	B	5 days	79
Insulin Resistance (Fasting)	FIRI	BG	4 hours	50
Insulin-Like Growth Factor 2	IGF2	B 6	1 month	31
Interferon – Alpha	IFA	(Frozen) 9	3 weeks	79
Interferon – Gamma	IFG	(Frozen)	3 weeks	79
Interleukin 1 Beta	ILB	(Frozen) 4,7	1-2 weeks	79
Interleukin 2	IL2	(Frozen) 4,7	1-2 weeks	79
Interleukin 4	IL4A	(Frozen) 4,7	1-2 weeks	79
Interleukin 6	IL6	(Frozen) 4,7	1-2 weeks	79
Interleukin 8	IL8	(Frozen) 4,7	1-2 weeks	79
Interleukin 10	IL10	(Frozen) 4,7	1-2 weeks	79
Interleukin 28b Genotype	IL28	A	2 weeks	79
Intrinsic Factor Antibodies	IFAB	B	2 days	79
lodide – Urine	UIOD	RU	1 week	31
Iodine – Serum	IODI	B	1 week	31
Ionised Calcium	ICPA	B	5 days	31
Iron (TIBC included)	FE	B	4 hours	31
Iron Overload Profile	IOP	A A B ⁹	3 days	31, 34, 115,128
Iron Status Profile	ISP	В	4 hours	31, 34
ISAC Panel	ISAC	В	3 days	134-135
Islet Cell Antibodies	ICAB	В	2 days	79
IUCD for Culture	IUCD	Send Device	11-12 days	40
JAK2 V617F genotyping assay	JAK2	A	2 weeks	115
JC Polyoma Virus by PCR	JCPV	(A)/(B)/CSF	5 days	96
Jewish/Pan-ethnic carrier screening	ASHJ	A 9	4 weeks	108, 115, 123, 128
Ketamine Screen	KETA	RU	7-10 days	153
KIR (Killer-like Immunoglobulin-like Receptors) Genotyping	17RF	AAA	2-3 weeks	52
Kiwi Components	ZZ32	B	2 days	141
Lactate (Plasma)	LACT	G 16	1 day	31
Lactate Dehydrogenase (LDH)	LDH	B	4 hours	31
Lactate Pyurvate Ratio	LPR	J ¹	4-6 weeks	31
Lactose Intolerance Gene	LACG	A	2 weeks	115
Lactose Tolerance Test	LTT	By appointment only	1 day	129
Lamotrigine	LAM0	B ⁴	5 days	130
Langer-Giedion Syndrome	PBOB,	CVS/AF/A (1) 9	5-15 days	115
- BOBs (5 days) + karyotype (15 days)	KARY			
Langer-Giedion Syndrome – BOBs only	PBOB	CVS/AF/A 9	5 days	115
Latex Components	ZZ13	<u> </u>	2 days	141
LDH Isoenzymes	IS0L	8	5 days	31
LDL7 Subfractions	LDL7	<u> </u>	10 days	31

TEST	CODE	SAMPLE REQS	TAT	PAGE
Lead (Blood)	LEAD	A	5 days	31, 155
Lead (Urine)	URPB	RU	5 days	31,156
Lead Profile (Hb, ZPP, Lead)	LEAZ	A 13	3-5 days	155
Legionella Antibodies	LEG0	В	2 days	79
Legionella Urine Antigen	LEGA	RU	1 day	40,79
Leishmania Antibodies	LEIS	В	5 days	86
Leptin	LEPT	B 19	5 days	31
Leptospirosis (Weil's Disease) Abs (IgM)	LEP	В	5 days	79
Leucine Amino Peptidase	LAP	B	5 days	31
Leucocyte Antibody Detection Panel FEMALE	8RF	В	1 week	52
Leucocyte Antibody Detection Panel MALE	7RF	OO O 3,4,6	1 week	52
Leukaemia Immunophenotyping	LYPT	A 4,5	5 days	38
Leukotriene E4	LTE4	CU (Frozen)	3 weeks	79
Levetiracetam (Keppra)	LEVE	B 4	3 days	130
Lipase	LIPA	В	4 hours	31
Lipid Profile	LIPP	B	4 hours	31,34
Lipid Transfer Proteins	ZZ23	В	2 days	141
Lipocalins	ZZ28	B	2 days	141
Lipoprotein (a)	LP0A	B	4 hours	31
Lipoprotein Electrophoresis	LEL	В	5 days	31
Listeria Antibody	LIST	В	1 week	79
Lithium (take 12 hours after dose)	LITH	B	4 hours	31,130
Liver Fibrosis (Enhanced Liver Fibrosis ELF)	ELF	B	5-7 days	31
Liver Fibrosis Fibrotest	FIBT	B	2 weeks	31
Liver Function Tests	LFT	B	4 hours	31, 34
Liver Immunoblot	LIVI	В	5 days	79
Liver Kidney Microsomal Antibodies	LKM	B	2 days	79
Lorazepam	LORA	A ⁴	10 days	130
Lp-PLA2 (PLAC) Test	PLA2	B	2 days	31
LSD	LSD	RU	5 days	153
Lupus Anticoagulant and Anticardiolipin Abs	LUPA	ⓑ ⓒ 4,18	2 days	37,79
Lupus Anticoagulant only	LUPC	○ 18	2 days	37
Lutein	LUTE	B 13	2 weeks	144
Luteinising Hormone (LH)	LH	В	4 hours	50
Lycopene	LYC0	B	2 weeks	144
Lyme Disease (Borrelia Abs) IgG, IgM	BORR	B 9,14	2 days	79
Lyme Disease (Borrelia Abs) IgM	BORM	В	2 days	79
Lymphocyte Subsets (CD3/CD4/CD8)	LYSS	A 10	1 day	36
Lymphogranuloma Venerium (LGV)	LGVP	PCR* 42	1-2 weeks	65
Lysosomal Enzyme Screen	LE	0 06	2 months	31
Lysozyme	LYS0	B	5 days	31
Macrolide Resistance Test (Mgen)	MGR	FCRU/PCR	1-2 weeks	65
Macroprolactin	PRLD	B	4 days	50

TEST	CODE	SAMPLE REQS	TAT	PAGE
Magnesium (Serum)	MG	В	4 hours	31,155
Magnesium (Urine)	URMG	PU	1 day	31,156
Magnesium (Whole blood)	RCMG	(A) or (1)	4 days	144
Malarial Antibodies (Pl. falciparum)	MALA	B 9,14	5 days	86
Malarial Antibodies (species specific)	MALS	B 9,14	10 days	86
Malarial Parasites	MALP	A 4,9,14	STAT	36
Male Genetic Reproductive Profile	GRP	A (1) 9	10-15 days	113, 116, 128
Male Hormone Profile	MIPR	В	4 hours	50, 54
Manganese (Serum)	MANG	В	5 days	31,155
Mannose Binding Lectin	MBL	В	3 weeks	31
MBOCA in Urine	MBOC	RU	10 days	156
Mean Cell Volume (MCV)	MCV	A	4 hours	36
Measles Antibodies (IgG) Immunity	MEAS	В	1 day	89,96
Measles Antibodies (IgM)	MEAM	B 9	2 days	89,97
Measles PCR	MEAP	Buccal swab	48 hours	97
Measles, Mumps, Rubella (MMR)	MMR	В	1 day	89
Melanin	MELA	RU ¹³	5 days	50
Melatonin (Serum)	MEL	(Frozen)	5 days	50
Melatonin (Urine)	UMEL	CU ¹³	2 weeks	50
Meningococcal Abs	MENI	В	2-4 weeks	79
Menopause Profile	MENO	В	4 hours	50,55
Mercury (Blood)	MERC	A or (1)	5 days	31, 155
Mercury (Urine)	URHG	RU ¹	5 days	31,156
MERS Coronavirus Test	MERS	J	1 day	97
Metabolic Syndrome Profile	METS	ABBG	9 days	50,55
Metanephrines (Plasma)	PMET	(Frozen plasma)	7 days	50
Metanephrines (Urine)	UMEX	PU ¹	5 days	50
Methaemoglobin	METH	A	3 days	31
Methaqualone	METQ	RU	5 days	31
Methotrexate	METX	В	2 days	130
Methylmalonic Acid – Serum	MMAS	В	5 days	31
Methylmalonic Acid – Urine	MMA	CU	2 weeks	31
Metronidazole Level	METR	B ⁴	7 days	129
Microalbumin (Urine)	UMA	RU	4 hours	31
Microdeletion (common) Syndromes – BOBs only	PB0B	CVS/AF/(A) 9	5 days	116
Microfilaria Blood Film	MICF	A	STAT	36
Miller-Dieker Syndrome	PBOB,	CVS/AF/(A) (1) 9	5-15 days	116
– BOBs (5 days) + karyotype (15 days)	KARY			
Miller-Dieker Syndrome – BOBs only	PB0B	CVS/AF/A 9	5 days	116
Mineral Screen	MINE	80	5 days	143-144
Mineral Screen (Whole blood)	RMIN	0	5 days	143-144
Mineral Screen and Industrial Heavy Metal Screen (Trace Metals)	TRAC	480	7-10 days	144

Millochondrial Antibodies AMIT G 2 days 75	TEST	CODE	SAMPLE REQS	TAT	PAGE
Mitochondrial Antibodies M2 MAM2 3 2 days 75 Molybdenum (Serum) MOLY 3 5 days 156 MRSA (Rapid PCR) one swab per site MRSA Blue Micro Swab 4 hours 44 MRSA Cuture one swab per site MRSW Blue Micro Swab 4 hours 44 Mucopolysaccharides MPS RU (Frozen) 3 weeks 33 Mumps Antibodies (gG) MUMP 3 1 day 88 Mumps Antibodies (gG) MUMP 3 1 day 89,97 Mysathenia Gravis Evaluation MGE 3 5 days 73 Myscology/Khin Scrapings by PCR DERM Submit Sample 3-7 days 44 Mycoplasma genitalium/Ureaplasma by PCR MEEN FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65 Mycoplasma genitalium/Ureaplasma by PCR MUPC GERU/PCR/TPV 2 days 65 Mycoplasma genitalium/Ureaplasma by PCR MUPC GERU/PCR/TPV 2 days	Miscarriage/Thrombotic Risk Profile	PROP	AABOO ¹⁸	5 days	37,39, 120,128
Molybdenum (Serum) MOLY 3 days 156 MRSA (Rapid PCR) one swab per site MRSA Blue Micro Swab 4 hours 4 days MRSA (Bapid PCR) one swab per site MRSW Blue Micro Swab 2 days 4 d Muscopolysaccharides MPS RU (Frozen) 3 weeks 3.3 Mumps Antibodies (IgG) MUMP 3 1 day 8.8 Mumps Antibodies (IgM) MUMM 3 1 day 8.9 Mumps Antibodies (IgM) MUMM 3 1 day 8.9 Mysatheria Gravis Evaluation MGE 3 5 days 4.7 Mycoplesing a genitalium by PCR DERM Submit Sample 3-7 days 4.4 Mycoplasma a genitalium by PCR MGEN FCRU/PCR/TPV 2 days 65, fic Mycoplasma a genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65, fic Mycoplasma peniera plantalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65, fic Mycoplasma peniera plantalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 d	Mitochondrial Antibodies	AMIT		2 days	79
MRSA (Rapid PCR) one swab per site MRSA Blue Micro Swab 4 hours 4 (or swab) MRSA Culture one swab per site MRSW Blue Micro Swab 2 days 4.0 Mucopolysaccharides MPS RU (Fozen) 3 weeks 33 Mumps Antibodies (IgG) MUMP 3 1 day 88.9 Murps Antibodies (IgM) MUMM 3 1 day 88.9 Myscology/Skin Scrapings by PCR DERM Submit Sample 3-7 days 4.0 Mycoplesmic Gardi (Cellcept) MYCP 4 5 days 13 Mycoplasma genitalium Dreaplasma by PCR MGEN FCRU/PCR/TPV 2 days 65, 160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65, 160 Mycoplasma penumoniae IgM and IgG MYCO 3 2 days 95 Mycoplasma penitalium/Ureaplasma by PCR MUPC 4 5 days 97 Mycoplasma spenitalium/Ureaplasma by PCR MUPC 4 5 days 97 Mycoplasma spenitalium/Ureaplasma by PCR MUPC 5 <th>Mitochondrial Antibodies M2</th> <th>MAM2</th> <th></th> <th>2 days</th> <th>79</th>	Mitochondrial Antibodies M2	MAM2		2 days	79
MRSA Culture one swab per site MRSW Blue Micro Swab 2 days 44 Mucopolysaccharides MPS RU (Frozen) 3 weeks 31 Mumps Antibodies (tgG) MUMP 3 1 day 88 Mumps Antibodies (tgG) MUMM 3 1 day 89,97 Myscology/Skin Scrapings by PCR DERM Submit Sample 3-7 days 44 Mycoplasma genitalium by PCR DERM Submit Sample 3-7 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65 Mycoplasma genitalium/Ureaplas	Molybdenum (Serum)	MOLY	B	5 days	156
Mucopolysaccharides MPS RU (Frozen) 3 weeks 33 Mumps Antibodies (IgG) MUMP 3 1 day 85 Mumps Antibodies (IgM) MUMM 3 1 day 88 Mysathenia Gravis Evaluation MGE 3 5 days 75 Mycoplaneilic Acid (Cellcept) MCP 3 5 days 13 Mycoplasma genitalium by PCR MGEN FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65 Mycoplasma pneumoniae IgM and IgG MYCO 3 2 days 97 Mycoplasma pneumoniae IgM and IgG MYCO 3 2 days 97 Mycoplasma species – DNA MPCR 4 5 days 97 Mycolina Basic Protein Antibodies MAG 3 2 weeks 75 Myelin Basic Protein Antibodies MBPA 3 2 weeks 75 Myelina Basic Protein Antibodies MPA 3 2 days 75 Myelina Basic Protein Antibodies	MRSA (Rapid PCR) one swab per site	MRSA	Blue Micro Swab	4 hours	40
Mumps Antibodies (IgG) MUMP 3 1 day 88 Mumps Antibodies (IgM) MUMM 3 1 day 89,97 Myasthenia Gravis Evaluation MGE 3 5 days 77 Mycology/Skin Scrapings by PCR DERM Submit Sample 3-7 days 40 Mycopleamia genitalium by PCR DERM Submit Sample 3-7 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MCPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma penumoniae IgM and IgG MYCO 3 2 days 97 Mycoplasma species – DNA MPCR 3 5 days 97 Myclin Associated Glycoprotein Antibodies MAPC 3 5 days 97 Myelin Associated Glycoprotein Antibodies MAPA 3 2 weeks 7.5 Myelin Basic Protein Antibodies MAPA 3 2 weeks 7.5 Myelin Basic Protein Antibodies MPPA 3 2 weeks 7.5 Myelin Basic Protein Antibodies MPPA 3 4 weeks 7.5	MRSA Culture one swab per site	MRSW	Blue Micro Swab	2 days	40
Mumps Antibodies (IgM) MUMM ① 1 day 89.97 Mysothenia Gravis Evaluation MGE ② 5 days 75 Mycoplams Gravis Evaluation MGE ③ 5 days 44 Mycoplasma Genitalium by PCR MYCP ⑤ 5 days 130 Mycoplasma genitalium/Ureaplasma by PCR MGEN FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 69 Mycoplasma genitalium/Ureaplasma by PCR MUPC Gays 5 63 93 Mycoplasma genitalium/Ureaplasma dy PCR MUPC Gays 5 64 6 6 6	Mucopolysaccharides	MPS	. ,	3 weeks	31
Myasthenia Gravis Evaluation MGE 3 5 days 75 Mycology/Skin Scrapings by PCR DERM Submit Sample 3-7 days 40 Mycophenolic Acid (Cellcept) MYCP 3 5 days 130 Mycoplasma genitalium by PCR MCEN FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65 Mycoplasma pneumoniae IgM and IgG MYCO 3 2 days 97 Mycoplasma species – DNA MPCR 3 5 days 97 Mycoplasma species – DNA MPCR 3 5 days 97 Mycoplasma species – DNA MPCR 3 5 days 97 Mycoplasma species – DNA MPCR 3 6 days 97 Mycoplasma species – DNA MPCR 3 6 days 97 Mycoplasma species – DNA MPCR 3 6 days 97 Mycoplasma species – DNA MPCR 3 6 days 97 Mycoline Servalida Artibodies	Mumps Antibodies (IgG)	MUMP		1 day	89
Mycology/Skin Scrapings by PCR DERM Submit Sample 3-7 days 44 Mycophenolic Acid (Cellcept) MYCP 5 days 130 Mycoplasma genitalium by PCR MGEN FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 66 Mycoplasma pneumoniae IgM and IgG MYCO 3 2 days 97 Mycoplasma species – DNA MPCR 4 5 days 97 Myelin Associated Glycoprotein Antibodies MAG 3 5 days 75 Myelin Basic Protein Antibodies MBPA 3 2 weeks 75 Myeloma Screen MYEL 43 G RU 5 days 13,34 Myeloma Screen MYEL 43 G RU 5 days 75 Myeloma Screen MYEL 43 G RU 5 days 75 Myeloma Screen MYEL 43 G RU 5 days 75 Myeloma Screen MYEL 43 G RU 5 days 31,34 Myeloma Screen MYEL	Mumps Antibodies (IgM)	MUMM	B	1 day	89,97
Mycophenolic Acid (Celicept) MYCP ⑤ 5 days 130 Mycoplasma genitalium by PCR MGEN FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65 Mycoplasma species – DNA MPCR ⑥ 5 days 97 Myelin Associated Glycoprotein Antibodies MAG ⑥ 5 days 97 Myelin Basic Protein Antibodies MAG ⑥ 5 days 97 Myeloma Screen MYEL ⑥ ⑥ 6 days 31 Myeloma Screen MYEL ⑥ ⑥ 6 days 75 Myeloma Screen MYEL ⑥ ⑥ C days 75 Myeloma Screen MYEL ⑥ ⑥ C days 75 Myeloma Screen MYEL ⑥ ⑥ C days 75 Myeloma Screen MYEL ⑥ ⑥ 0 1 weeks 75 Myeloma Screen MYEL ⑥ ⑥ 0 1	Myasthenia Gravis Evaluation	MGE	В	5 days	79
Mycoplasma genitalium by PCR MGEN FCRU/PCR/TPV 2 days 65,160 Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 65 Mycoplasma pneumoniae IgM and IgG MYCO 3 2 days 97 Mycoplasma species – DNA MPCR 3 5 days 97 Myelin Associated Glycoprotein Antibodies MAG 3 5 days 77 Myelin Basic Protein Antibodies MBPA 3 2 weeks 77 Myelona Screen MYEL 3 6 RU 5 days 31,34 Mycloparoxidase Antibodies MPO 3 2 days 73 Mycoplasma species – DNA MYEL 3 6 RU 5 days 31,34 Mycoplasma Screen MYEL 3 6 RU 5 days 31,34 Mycoplasma Screen MYO 3 1 week 75 Mycoplasma Screen MYO 3 4 hours 33 Mycoglobin (Scrum) SMYO 3 4 hours 33 Myoglobin (Scrum) SMYO 6 4 hours 33 Myoglobin (Urine) UMYO RU 5-10 days 33 Myositis Panel MYOS 3 2 days 75 Mysoline (Primidone) PRIM 3 4 3 days 133 M. gonorrhoea TGON TPV 2 days 166 Nail Clippings DERM Nail clippings 3-7 days 44 Natural Killer Profile 2 NKP2 3 2 days 36,38 Needle Stick Injury Profile NSI 3 2 days 37.9 Neuronal Stick Injury Profile NSI 3 2 days 37.9 Neuronal Stick Injury Profile NSI 3 2 days 37.9 Neuronal Stick Injury Profile NSI 3 3 4 hours 89,37 Neuronal Stick Injury Profile NSI 3 2 days 37.9 Neuronal Stick Injury Profile NSI 3 3 4 hours 89,37 Neuronal Stick Injury Profile NSI 3 5 days 32,155 NEURolf (Greum) NICK 3 5 days 32,155 NEURONA Screen NICU RU 10 days 32,155 Nickel (Greum) NICK 3 5 days 32,155 NK (CD69) and NK Cytotoxicity 69C 3 6 0 5 Send Mon-Thurs only NK (CD69) and NK Cytotoxicity 69C 3 6 0 5 Send Mon-Thurs only NK (CD69) and NK Cytotoxicity 69C 3 6 0 5 Send Mon-Thurs only NK (CD69) and NK Cytotoxicity 69C 3 6 0 5 Send Mon-Thurs only NK (CD69) Profile NK (CD69) and NK Cytotoxicity 69C 3 6 0 5 Send Mon-Thurs only NK (CD69) Profile NK (CD69) Profile NK (CD69) And NK Cytotoxicity 69C 3 6 0 5 Send Mon-Thurs only NK (CD69) Profile NK (CD69) And NK Assay Panel + Intralipids 16RF 3 1 1 week 52	Mycology/Skin Scrapings by PCR	DERM	Submit Sample	3-7 days	40
Mycoplasma genitalium/Ureaplasma by PCR MUPC FCRU/PCR/TPV 2 days 66 Mycoplasma pneumoniae IgM and IgG MYCO 3 2 days 97 Mycoplasma species – DNA MPCR 4 5 days 97 Myelin Associated Glycoprotein Antibodies MAG 3 5 days 75 Myelin Basic Protein Antibodies MBPA 3 2 weeks 75 Myeloma Screen MYEL 4 3 6 days 31,34 Myeloma Screen MYEL 4 3 6 days 75 Myeloma Screen MYEL 4 3 6 days 31,34 Myeloma Screen MYEL 4 3 6 days 31,34 Myeloma Screen MYEL 4 3 6 days 75 Myeloma Screen MYEL 4 6 9 2 days 75 Myoglobin (Serum) SMYO 3 4 hours 3 3 Myoglobin (Serum) MYYOS 6 2 days 75 <td>Mycophenolic Acid (Cellcept)</td> <td>MYCP</td> <td>A</td> <td>5 days</td> <td>130</td>	Mycophenolic Acid (Cellcept)	MYCP	A	5 days	130
Mycoplasma pneumoniae IgM and IgG MYCO 3 2 days 99 Mycoplasma species – DNA MPCR 3 5 days 97 Myelin Associated Glycoprotein Antibodies MAG 3 5 days 75 Myelin Basic Protein Antibodies MBPA 3 2 weeks 75 Myeloma Screen MYEL 3 6 RU 5 days 31,34 Myeloma Screen MYEL 3 6 RU 5 days 31,34 Myeloma Screen MYEL 3 6 RU 5 days 31,34 Myeloma Screen MYEL 3 6 RU 5 days 31,34 Myeloma Screen MYEL 3 6 RU 5 days 31,34 Myeloma Screen MYEL 3 6 8 7 9 Myeloma Screen MYO 3 1 9 3 3 4 9 3 3 3 4 9 3 3 3 3	Mycoplasma genitalium by PCR	MGEN	FCRU/PCR/TPV	2 days	65,160
Mycoplasma species – DNA MPCR 6 5 days 99 Myelin Associated Glycoprotein Antibodies MAG 3 5 days 75 Myelin Basic Protein Antibodies MBPA 3 2 weeks 75 Myeloma Screen MYEL 4 6 6 8 75 Myeloma Screen MYEL 4 6 6 75 4 75 Myeloma Screen MYEL 4 6 9 1 4 1 3 4 4 4 4 4 4 4 4 4 4 4 6 1 1 4 1 4 1 <t< td=""><td>Mycoplasma genitalium/Ureaplasma by PCR</td><td>MUPC</td><td>FCRU/PCR/TPV</td><td>2 days</td><td>65</td></t<>	Mycoplasma genitalium/Ureaplasma by PCR	MUPC	FCRU/PCR/TPV	2 days	65
Myelin Associated Glycoprotein Antibodies MAG Image: Brown and the content of the co	Mycoplasma pneumoniae IgM and IgG	MYCO		2 days	97
Myelin Basic Protein Antibodies MBPA ③ 2 weeks 75 Myeloma Screen MYEL ④ ③ ⊕ Bays 31,34 Myeloma Screen MYEL ④ ③ ⊕ Bays 31,34 Myeloma Screen MYEL ④ ③ ⊕ days 31,34 Myeloma Screen MYEL ④ ③ ⊕ 2 days 75 Myocardial Antibodies MYO ⑤ ⊕ Hours 32 Myoglobin (Gerum) SMYO ⑥ ⊕ Hours 32 Myoglobin (Urine) UMYO RU 5-10 days 32 Myoglobin (Urine) UMYO RU 5-10 days 32 Myoglobin (Urine) UMYO RU 5-10 days 32 Myoglobin (Urine) MYOS ⑥ ② 2 days 75 Mysoline (Primidone) PRIM ⑥ 0 3 days 130 N. Gont (Primidone) PRIM 0 1 4 hour	Mycoplasma species – DNA	MPCR	A	5 days	97
Myeloma Screen MYEL 1 3 3 RU 5 days 31,34 Myeloperoxidase Antibodies MPO 3 2 days 75 Myocardial Antibodies MYO 3 1 week 75 Myoglobin (Serum) SMYO 3 4 hours 32 Myoglobin (Urine) UMYO RU 5-10 days 32 Myositis Panel MYOS 3 2 days 75 Mysoline (Primidone) PRIM 34 3 days 130 N. gonorrhoea TGON TPV 2 days 160 Nail Clippings DERM Nail Clippings 3-7 days 44 Natural Killer Profile 2 NKP2 2 2 days 36,33 Needle Stick Injury Profile NSI 35 4 hours 89,97 Neurological Viral Screen NVIR 36 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 10 days 75 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 5 days <	Myelin Associated Glycoprotein Antibodies	MAG	B	5 days	79
Myeloperoxidase Antibodies MPO ① ② 2 days 75 Myocardial Antibodies MYO ① ① 1 week 76 Myoglobin (Serum) SMYO ② 4 hours 32 Myoglobin (Urine) UMYO RU 5-10 days 32 Myositis Panel MYOS ② 2 days 75 Mysoline (Primidone) PRIM ① 3 days 130 N. gonorrhoea TGON TPV 2 days 160 Nail Clippings DERM Nail clippings 3-7 days 40 Natural Killer Profile 2 NKP2 ② 2 days 36,33 Needle Stick Injury Profile NSI ③ 3 hours 89,97 Neurological Viral Screen NVIR ③ 3 days 97-96 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR ③ 10 days 76 Neurone Specific Enolase NSE ⑤ 5 days 32,156 Nickel (Serum) NICK ⑥ 5 days <td>Myelin Basic Protein Antibodies</td> <td>MBPA</td> <td></td> <td>2 weeks</td> <td>79</td>	Myelin Basic Protein Antibodies	MBPA		2 weeks	79
Myocardial Antibodies MYO 3 1 week 75 Myoglobin (Serum) SMYO 3 4 hours 32 Myoglobin (Urine) UMYO RU 5-10 days 32 Myositis Panel MYOS 3 2 days 75 Mysoline (Primidone) PRIM 34 3 days 130 N. gonorrhoea TGON TPV 2 days 160 Nail Clippings DERM Nail clippings 3-7 days 40 Natural Killer Profile 2 NKP2 2 2 days 36,38 Needle Stick Injury Profile NSI 3 (3) 4 hours 89,97 Neurological Viral Screen NVIR 3 (3) 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 (3) 10 days 77-98 Neurone Specific Enolase NSE 3 (3) 5 days 99 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 3 (5) 5 days 32,	Myeloma Screen	MYEL		5 days	31, 34
Myoglobin (Serum) SMYO 3 4 hours 32 Myoglobin (Urine) UMYO RU 5-10 days 32 Myositis Panel MYOS 3 2 days 75 Mysoline (Primidone) PRIM 3-4 3 days 130 N. gonorrhoea TGON TPV 2 days 160 Nail Clippings DERM Nail clippings 3-7 days 40 Natural Killer Profile 2 NKP2 4 2 days 36,38 Needle Stick Injury Profile NSI 3 2 days 36,38 Neurological Viral Screen NVIR 3 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 2 days 97-98 Neurone Specific Enolase NSE 3 5 days 95 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 3 5 days 32,156 NK (CD69) and NK Cytotoxicity 69C 10 3 3 <	Myeloperoxidase Antibodies	MP0		2 days	79
Myoglobin (Urine) UMYO RU 5-10 days 32 Myositis Panel MYOS 3 2 days 75 Mysoline (Primidone) PRIM 13 days 130 N. gonorrhoea TGON TPV 2 days 160 Nail Clippings DERM Nail clippings 3-7 days 40 Natural Killer Profile 2 NKP2 4 2 days 36,38 Needle Stick Injury Profile NSI 3 (3) 4 hours 89,97 Neurological Viral Screen NVIR 3 (3) 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 (3) 2 days 97-98 Neurone Specific Enolase NSE 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) Newborn Screening Panel GUTH J 1 2 weeks 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3) 3 (3)	Myocardial Antibodies	MY0	B	1 week	79
Mysoitis Panel MYOS 3 2 days 75 Mysoline (Primidone) PRIM 3 days 130 N. gonorrhoea TGON TPV 2 days 160 Nail Clippings DERM Nail clippings 3-7 days 40 Natural Killer Profile 2 NKP2 4 2 days 36,38 Needle Stick Injury Profile NSI 3 (3) 4 hours 89,97 Neurological Viral Screen NVIR 3 (2) 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 (3) 10 days 75 Neurone Specific Enolase NSE 3 (3) 10 days 75 Newborn Screening Panel GUTH J 1 2 weeks 32 Nickel (Serum) NICK 3 days 32,156 Nickel (Urine) NICU RU 10 days 32,156 NK (CD69) and NK Cytotoxicity 69C 1 (1) 1 (1) 3 (2) 3 (2) NK (CD69) Cell Assay CD69 0 (2) 3 (2) 3	Myoglobin (Serum)	SMY0	B	4 hours	32
Mysoline (Primidone) PRIM €3 4 3 days 130 N. gonorrhoea TGON TPV 2 days 160 Nail Clippings DERM Nail clippings 3-7 days 40 Natural Killer Profile 2 NKP2 4 2 days 36,38 Needle Stick Injury Profile NSI 3 €3 4 hours 89,97 Neurological Viral Screen NVIR 3 €3 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 6 10 days 75 Neurone Specific Enolase NSE 6 10 days 99 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 6 days 32,155 Nickel (Urine) NICU RU 10 days 32,155 NK (CD69) and NK Cytotoxicity 69C 1 10 th* Send Mon-Thurs only 53 NK (CD69) Cell Assay CD69 0* Send Mon-Thurs only 53 NK Assay Follow-Up Panel 5RF 1 0 th* 1 week 52	Myoglobin (Urine)	UMY0	RU	5-10 days	32
N. gonorrhoea TGON TPV 2 days 160 Nail Clippings DERM Nail clippings 3-7 days 40 Natural Killer Profile 2 NKP2 3 2 days 36,38 Needle Stick Injury Profile NSI 3 € 4 hours 89,97 Neurological Viral Screen NVIR 3 € 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 10 days 75 Neurone Specific Enolase NSE 3 5 days 99 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 3 5 days 32,156 Nickel (Urine) NICU RU 10 days 32,156 NK (CD69) and NK Cytotoxicity 69C 1 ⊕ Send Mon-Thurs only 53 NK (CD69) Cell Assay CD69 ⊕* Send Mon-Thurs only 53 NK (CD69) Cell Assay CD69 ⊕* Send Mon-Thurs only 54 NK Assay Follow-Up Panel 5RF 1	Myositis Panel	MYOS	В	2 days	79
Nail Clippings DERM Nail clippings 3-7 days 40 Natural Killer Profile 2 NKP2 3 2 days 36,33 Needle Stick Injury Profile NSI 3 3 4 hours 89,97 Neurological Viral Screen NVIR 3 3 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 10 days 75 Neurone Specific Enolase NSE 3 5 days 98 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 3 5 days 32,156 Nickel (Urine) NICU RU 10 days 32,156 NK (CD69) and NK Cytotoxicity 69C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mysoline (Primidone)	PRIM	B 4	3 days	130
Natural Killer Profile 2 NKP2 4 2 days 36,38 Needle Stick Injury Profile NSI 3 € 4 hours 89,97 Neurological Viral Screen NVIR 3 € 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 € 10 days 78 Neurone Specific Enolase NSE 3 € 5 days 98 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 3 € 5 days 32,15€ Nickel (Urine) NICU RU 10 days 32,15€ NK (CD69) and NK Cytotoxicity 69C 1 ⊕ Send Mon-Thurs only 53 NK (CD69) Cell Assay CD69 ⊕* Send Mon-Thurs only 53 NK Assay Follow-Up Panel 5RF ⊕ ⊕ ⊕ ⊕ NK Assay Panel + Intralipids 16RF ⊕ ⊕ ⊕ ⊕	N. gonorrhoea	TGON	TPV	2 days	160
Needle Stick Injury Profile NSI 3 © 3 4 hours 89,97 Neurological Viral Screen NVIR 3 © 3 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 10 days 75 Neurone Specific Enolase NSE 3 5 days 98 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 3 5 days 32,156 Nickel (Urine) NICU RU 10 days 32,156 NK (CD69) and NK Cytotoxicity 69C 4 0 0 0 3 3 3 NK (CD69) Cell Assay CD69 0 0 0 Send Mon-Thurs only 53 NK (CD69) Cell Assay CD69 0 0 0 1 week 52 NK Assay Follow-Up Panel 5RF 1 0 0 0 1 week 52 NK Assay Panel + Intralipids 16RF 1 0 0 1 week 52	Nail Clippings	DERM		3-7 days	40
Neurological Viral Screen NVIR 3 © 2 days 97-98 Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 10 days 75 Neurone Specific Enolase NSE 3 5 days 95 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 3 5 days 32,155 Nickel (Urine) NICU RU 10 days 32,156 NK (CD69) and NK Cytotoxicity 69C 4 4 6 6 Send Mon-Thurs only 53 NK (CD69) Cell Assay CD69 C 8 6 7 6 7 7 8 7 8 7 8 7 7 8 7 7 8 7 7 7 7	Natural Killer Profile 2	NKP2	A	2 days	36,39
Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2) NEUR 3 10 days 75 Neurone Specific Enolase NSE 3 5 days 95 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 3 5 days 32,155 Nickel (Urine) NICU RU 10 days 32,156 NK (CD69) and NK Cytotoxicity 69C 1 1 4 Send Mon-Thurs only 53 NK (CD69) Cell Assay CD69 1 ** Send Mon-Thurs only 53 NK Assay Follow-Up Panel 5RF 1 ** 1 ** 1 week 52 NK Assay Panel + Intralipids 16RF 1 ** 1 ** 1 week 52	Needle Stick Injury Profile	NSI	BB	4 hours	89,97
Neurone Specific Enolase NSE 3 5 days 99 Newborn Screening Panel GUTH J¹ 2 weeks 32 Nickel (Serum) NICK 3 5 days 32,155 Nickel (Urine) NICU RU 10 days 32,156 NK (CD69) and NK Cytotoxicity 69C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Neurological Viral Screen	NVIR		2 days	97-98
Newborn Screening Panel GUTH J	Neuronal Antibody (Hu, Ri, Yo, Cv2, Ma2)	NEUR	B	10 days	79
Nickel (Serum) NICK 3 days 32,156 Nickel (Urine) NICU RU 10 days 32,156 NK (CD69) and NK Cytotoxicity 69C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Neurone Specific Enolase	NSE	B	5 days	99
Nickel (Urine) NICU RU 10 days 32,156 NK (CD69) and NK Cytotoxicity 69C 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Newborn Screening Panel	GUTH		2 weeks	32
NK (CD69) and NK Cytotoxicity 69C ① ① ① ** Send Mon-Thurs only 53 NK (CD69) Cell Assay CD69 ① ** Send Mon-Thurs only 53 NK Assay Follow-Up Panel 5RF ① ② ① ① ① ① ① ① ① ① ② 1 week 52 NK Assay Panel + Intralipids 16RF ① ② ① ① ① ② 1 week 52	Nickel (Serum)	NICK	B	5 days	32,155
NK (CD69) and NK Cytotoxicity 69C Gend only 53 NK (CD69) Cell Assay CD69 Gend Mon-Thurs only 53 NK Assay Follow-Up Panel 5RF Gend Mon-Thurs only 52 NK Assay Panel + Intralipids 16RF Gend Mon-Thurs only 52 NK Assay Panel + Intralipids 16RF Gend Mon-Thurs only 52	Nickel (Urine)	NICU	RU	10 days	32,156
NK (CD69) Cell Assay CD69 Only 53 NK Assay Follow-Up Panel 5RF 1 week 52 NK Assay Panel + Intralipids 16RF 1 week 52	NK (CD69) and NK Cytotoxicity	69C	000 *		53
NK Assay Panel + Intralipids 16RF 🕦 🐧 1 week 52	NK (CD69) Cell Assay	CD69			53
	NK Assay Follow-Up Panel	5RF	000	1 week	52
NK Assay/Cytotoxicity Panel 4RF 🗘 🗘 🗘 1 week 52	NK Assay Panel + Intralipids	16RF	000	1 week	52
	NK Assay/Cytotoxicity Panel	4RF	000	1 week	52

TEST	CODE	SAMPLE REQS	TAT	PAGE
NK Cytotoxicity Assay	HSNK	000*	Send Mon-Thurs only	53
NK Cytotoxicity with suppression with steroid, IVIg and intralipin, and NK (CD69) cell assay	69CI	•••	Send Mon-Thurs only	53
NK Cytotoxicity with suppression, steroid, IVIg & Intralipin	NKCY	000*	Send Mon-Thurs only	53
NMDA Receptor Antibodies	NMDA	В	3 weeks	79
NMP22 (Bladder tumour)	NMP	\mathbf{J}^1	4 days	32,99
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood	NIPT	J/Special tubes ¹	3-5 days	117, 125
Non-Invasive Prenatal Testing – common aneuploidy screening from maternal blood including 22q11.2 del	NIPQ	J/Special tubes ¹	3-5 days	117,125
Nucleic Acid Antigen Antibodies	DNA	В	2 days	79
Oestradiol (E2)	0EST	В	4 hours	50
Oestriol (Estriol)	E3	88	4 days	50
Oestrone	E1	88	4 days	50
Olanzapine	OLAN	A ⁴	5 days	130
Oligoclonal Bands	CSF0	CSF + 📵	5 days	79
Oligosaccharides	UOLI	RU	6 weeks	32
Olive Components	ZZ14	В	2 days	141
Omega 3/Omega 6	OMG3	A ⁴	4 days	144-145
Opiate Screen (Urine)	UOPI	RU	2 days	153
Orosomucoid (A1AG – Alpha 1 Glycoprotein)	OROS	(Frozen)	5 days	32
Osmolality (Serum)	OSM0	В	1 day	32
Osmolality (Urine)	ROSM	RU	1 day	32
Osteocalcin	0ST	(Frozen)4	4 days	50,99
Osteoporosis Screen	OPS	88	4 days	32, 35
Ovarian Autoantibodies	OVAB	В	2 days	79
Oxalate (Plasma)	POXA	(Frozen)	7 days	32
Oxalate (Urine)	UOXA	PU	5 days	32
Oxidative Stress in Semen (ROS + MIOXSYS)	SROS	Semen ¹	1 day	61
P2Y12 Receptor Platelet Function Analysis (Clopidogrel Resistance)	P2Y	(Whole blood)**	1 day	37
PAI1 4G/5G Polymorphism	PAIP	A	10 days	36
Pan-Ethnic/Jewish Carrier Screening	GENE	A 9	4 weeks	118, 128
Pancreatic Peptide	PP	J	4 weeks	32
PAPT and HPVH	Papt + Hpvh	TPV	2-3 days	162
Paracetamol	PARA	В	4 hours	130
Paragomius Serology	PRGM	В	2 weeks	79
Parathyroid Antibodies	PTHA	В	1 week	79
Parathyroid Hormone (Whole)	PTHI	B 4	1 day	50
Parathyroid Related Peptide	PTRP	2ml (A) Plasma frozen (Freeze immediately) 1	2 weeks	32

Parvovirus OND by PCR PCRP 3 2 days 9 Parvovirus DNA by PCR PCRP 3 2 weeks 9 Parvovirus IgG Antibodies PARG 3 2 days 9 Parvovirus IgG Antibodies PARG 3 2 days 9 Partenity Testing (postnatal and prenatal) — sample required from each person being tested (3 people) PART 4 AF/CVS ************************************	TEST	CODE	SAMPLE REQS	TAT	PAGE
Parvovirus IDNA by PCR PCRP ⑥ 2 weeks 9 Parvovirus IgG Antibodies PARG ⑥ 2 days 9 Parvovirus IgG Antibodies PARP ⑥ 2 days 9 Parvovirus IgG/IgM Abs PARP ⑥ 2 days 9 Patrentity Testing (posthatal and prenatal) — sample required from each person being itseld (3 people) PAIT ⑥ / AF/CVS³************************************	Parvalbumins	ZZ29	В	2 days	141
Parvovirus IgG/IgM Abs PARP 3 2 days 9 Parvovirus IgG/IgM Abs PARP 3 2 days 9 Paternity Testing (postnatal and prenatal) – sample regulared from each person being tested (3 people) PATT ♣ /AF/CVS ************************************	Parvovirus Antibodies (IgM)	PARV	В	2 days	97
Parvovirus IgG/IgM Abs PARP ② 2 days 9 Paternity Testing (postnatal and prenatal) – sample required from each person being tested (3 people) ATT ③ /AF/CVS NUZ Contact lab 5 days 11 Paul Bunnell (Monospot) PAUL ④ of ③ 8 hours 3 Pean Components ZZ15 ③ 2 days 14 Pean Components ZZ16 ③ 2 days 14 Peant Components ZZ216 ③ 2 days 14 Peant McDermid Syndrome ERRS ③ 5 days 8 PEth (Phosphatidylethanol) PETH ⑥ 0 days 15 Pheth (Phosphatidylethanol) PETH Ø 12-17 days 11 Pheth (Phosphatidylethanol) PETH AB 12-17 d	Parvovirus DNA by PCR	PCRP	A	2 weeks	97
Paternity Testing (postnatal and prenatal)	Parvovirus IgG Antibodies	PARG	В	2 days	97
Sample required from each person being tested (3 people)	Parvovirus IgG/IgM Abs	PARP	В	2 days	97
Peach Components ZZ15 ③ 2 days 14 Peanut Components ZZ16 ③ 2 days 14 Pemphigus/Pemphigoid Autoantibodies SKAB ⑥ 2 days 8 Pertussis (Whooping Cough) Antibodies PERS ⑥ 5 days 8 PEth (Phosphatidylethanol) PETH ⑥³³³ 5-7 days 32,15 Pethidine – Urine UPET RU 4 weeks 15 Phenderbridore LPET RU 4 weeks 15 PhencDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ ⑥³ 12-17 days 11 PhencDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ ⑥³ 12-17 days 11 PhencDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ ⑥³ 12-17 days 11 PhencDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ ⑥³ 12-17 days 11 PhencDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ ⑥³ 12-17 days 11 PhenancDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ ⑥	sample required from each person being	PATT	A /AF/CVS 9,11,12 Contact lab	5 days	118
Peanut Components ZZ16 3 2 days 14 Pemphigus/Pemphigoid Autoantibodies SKAB 3 2 days 8 Pertussis (Whooping Cough) Antibodies PERS 3 5 days 8 PEth (Phosphatidylethanol) PETH 33 5-7 days 32,15 Pethidine – Urine UPET RU 4 weeks 15 Phethalm-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ (1) 12-17 days 11 Phean-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ (1) 12-17 days 11 Phean-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ (1) 12-17 days 11 Phean-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ (1) 12-17 days 11 Phean-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ (1) 12-17 days 11 Phean-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ (1) 12-17 days 12 Phenocycladine (PCP) DUST RU 5 days 3 Phenyton (Epanutin)	Paul Bunnell (Monospot)	PAUL	(A) or (B)	8 hours	36
Pemphigus/Pemphigoid Autoantibodies	Peach Components	ZZ15	3	2 days	141
Pertussis (Whooping Cough) Antibodies PERS 3 5 days 8 PEth (Phosphatidylethanol) PETH ♠³³ 5-7 days 32,15 Pethidine – Urine UPET RU 4 weeks 15 Phelan-McDermid Syndrome – karyotype + FISH KARY, FISH CVS / AF / ⑥³ 12-17 days 11 Phencyclidine (PCP) DUST RU 5 days 3 Phenobarbitone PHB ⑥ 4 hours 13 Phenytoin (Epanutin) PHEN ⑥ 4 hours 13 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphotale (24 hour Urine) UPH PU 4 hours 3 Phospholipid Antibodies PLIP ⑥ 5 days 8 Phospholipid Antibodies PLIP ⑥ 5 days 8 Pitultary Function Profile PITF ⑥ 1 day 50,55 Pitulary Function Profile PITF ⑥ ⑥ 1 day 50,55 PLAC Test (Ip-PLA2) PLAS	Peanut Components	ZZ16	3	2 days	141
PEth (Phosphatidylethanol) PETH № 88 5-7 days 32,15 Pethidine – Urine UPET RU 4 weeks 15 Phetan-McDermid Syndrome – karyotype + FISH KARY, FISH CVS/AF/ (♣) 9 12-17 days 11 Phencyclidine (PCP) DUST RU 5 days 3 Phenobarbitone PHB ① 4 hours 13 Phenytoin (Epanutin) PHEN ② 4 hours 13 Phosphate PHOS ③ 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Pitut (25 to fact (Lp-PLA2) 10 to fact (Lp-PLA2) 10 to fact (Lp-PLA2) </td <td>Pemphigus/Pemphigoid Autoantibodies</td> <td>SKAB</td> <td>B</td> <td>2 days</td> <td>80</td>	Pemphigus/Pemphigoid Autoantibodies	SKAB	B	2 days	80
Pethidine − Urine UPET RU 4 weeks 15 Phelan-McDermid Syndrome − karyotype + FISH FISH FISH FISH KARY, FISH FISH FISH CVS/AF/€ 9 12-17 days 111 Phenocyclidine (PCP) DUST RU 5 days 3 Phosphate PHOS 4 hours 13 Phosphate PHOS 4 hours 3 Phosphotalide PHOS 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) PLIP 3 5 days 8 Plus phosphate (24 hour Urine) PLIP 3 5 days 3 <	Pertussis (Whooping Cough) Antibodies	PERS	В	5 days	89
Phelan-McDermid Syndrome - karyotype + FISH KARY, FISH CVS/AF/(1) 9 12-17 days 11 Phenocyclidine (PCP) DUST RU 5 days 3 Phenobarbitone PHB 3 4 hours 13 Phenytoin (Epanutin) PHEN 3 4 hours 13 Phosphate PHOS 3 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phusphate (24 hour Urine) UPH 10 4 hours <td< td=""><td>PEth (Phosphatidylethanol)</td><td>PETH</td><td>A 38</td><td>5-7 days</td><td>32,153</td></td<>	PEth (Phosphatidylethanol)	PETH	A 38	5-7 days	32,153
Phenocyclidine (PCP) DUST RU 5 days 3 Phenobarbitone PHB 10 4 hours 13 Phenytoin (Epanutin) PHEN 13 4 hours 13 Phosphate PHOS 3 4 hours 33 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phospholipid Antibodies PLIP 3 5 days 8 Pitutary Antibodies PITU 3 1 month 8 Pitutary Function Profile PITF 3 1 day 50,5 PLAC Test (Lp-PLA2) PLA2 3 2 days 3 PLAC Test (Lp-PLA2) PLAS 6 (Frozen plasma) 5 days 3 Place (Lp-PLA2) PLAS 6 (Frozen plasma) 2 weeks 3 Plasminogen PLAG J 5 s 3 days 3 Plasmino	Pethidine – Urine	UPET	RU	4 weeks	156
Phenobarbitione PHB ③ 4 hours 13 Phenytoin (Epanutin) PHEN ⑤ 4 hours 13 Phosphate PHOS ⑥ 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phospholipid Antibodies PLIP ⑥ 5 days 8 Pituitary Antibodies PITU ⑥⁴ 1 month 8 Pituitary Function Profile PITF ⑥⁴ 1 day 50,5 PLAC Test (Lp-PLA2) PLA2 ⑥ ② days 3 PLAS ② (Frozen plasma)⁴ 5 days 3 Plasminogen PLAS ④ (Frozen plasma)⁴ 5 days 3 Plasminogen Activator Inhibitor − 1 PAl1 ④ (Frozen plasma)⁴ 5 days 3 Plasminogen Activator Inhibitor − 1 PAl1 ④ (Frozen plasma)⁴ 5 days 3 Plasminogen Activator Inhibitor − 1 PAl1 ④ (Frozen plasma)⁴ 5 days 3 Pleural Fluid for Culture FLUP SC 7 days	Phelan-McDermid Syndrome – karyotype + FISH	,	CVS/AF/(1) 9	12-17 days	118
Phenytoin (Epanutin) PHEN ③ 4 hours 13 Phosphate PHOS ③ 4 hours 3 Phosphate (24 hour Urine) UPH PU 4 hours 3 Phospholipid Antibodies PLIP ⑤ 5 days 8 Pituitary Antibodies PITU ⑥ 1 day 50,5 PLAC Test (Lp-PLA2) PLA2 ⑥ 2 days 3 PLAC Test (Lp-PLA2) PLA2 ⑥ (Frozen plasma) 4 5 days 3 Plasminogen PLAS ⑥ (Frozen plasma) 4 5 days 3 Plasminogen Activator Inhibitor − 1 PAl1 ⑥ (Frozen plasma) 4 5 days 3 Plasminogen Activator Inhibitor − 1 PAl1 ⑥ (Frozen plasma) 2 2 weeks 3 Plasminogen Activator Inhibitor − 1 PAl1 ⑥ (Frozen plasma) 2 2 weeks 3 Plasminogen Activator Inhibitor − 1 PAl1 ⑥ (Frozen plasma) 2 2 weeks 3 Plasminogen Activator Inhibitor − 1 PAl1	Phencyclidine (PCP)	DUST	RU	5 days	32
Phosphate PHOS ③ 4 hours ③ Phosphate (24 hour Urine) UPH PU 4 hours ③ Phospholipid Antibodies PLIP ⑤ 5 days 8 Pituitary Antibodies PITU ⑥⁴ 1 month 8 Pituitary Antibodies PITF ⑥ ⑥¹ 1 day 50,55 PLAC Test (Lp-PLA2) PLA2 ⑥ 2 days 33 Plasminogen PLAS ⑥ (Frozen plasma)⁴ 5 days 33 Plasminogen Activator Inhibitor − 1 PAI1 ⑥ (Frozen plasma)⁴ 5 days 33 Plasminogen Activator Inhibitor − 1 PAI1 ⑥ (Frozen plasma)⁴ 5 days 33 Plasminogen Activator Inhibitor − 1 PAI1 ⑥ (Frozen plasma)⁴ 2 weeks 33 Plasminogen Activator Inhibitor − 1 PAI1 ⑥ (Frozen plasma)⁴ 2 weeks 33 Plasminogen Activator Inhibitor − 1 PAI1 ⑥ (Frozen plasma)⁴ 2 weeks 33 Plasminogen Activator Inhibitor − 1 PAI1 ⑥ (Frozen plasma)⁴ 2 weeks 33	Phenobarbitone	PHB		4 hours	130
Phosphate (24 hour Urine) UPH PU 4 hours 3 Phospholipid Antibodies PLIP ③ 5 days 8 Pituitary Antibodies PITU ③ 4 1 month 8 Pituitary Function Profile PITF ③ 6 1 day 50,55 PLAC Test (Lp-PLA2) PLA2 ④ 2 days 33 Plasminogen PLAS ④ (Frozen plasma) 4 5 days 33 Plasminogen Activator Inhibitor − 1 PAl1 ④ (Frozen plasma) 2 weeks 33 Plasminogen Activator Inhibitor − 1 PAl1 ④ (Frozen plasma) 2 weeks 33 Plasminogen Activator Inhibitor − 1 PAl1 ④ (Frozen plasma) 2 weeks 33 Plasminogen Activator Inhibitor − 1 PAl1 ④ (Frozen plasma) 2 weeks 33 Plasminogen Activator Inhibitor − 1 PAl1 ④ (Frozen plasma) 2 weeks 33 Plasminogen Activator Inhibitor − 1 PAl1 ● (Frozen plasma) 2 weeks 33 Plasminogen Activator Inhibitor − 1 PAl1 ● (Frozen plasma)	Phenytoin (Epanutin)	PHEN	В	4 hours	130
Phospholipid Antibodies PLIP G: 5 days Pituitary Antibodies PITU G: 1 month B8 Pituitary Function Profile PITF G: G: 1 day Flay Flac Test (Lp-PLA2) PLA2 Flasminogen PLAS Plasminogen PLAS Plasminogen PLAS Plasminogen PLAG Frozen plasma) Plasminogen PLAG PLAG Frozen plasma) Veweks Plasminogen PLAG Verecan plasma) Veweks Vewe	Phosphate	PHOS	В	4 hours	32
Pituitary Antibodies PITU	Phosphate (24 hour Urine)	UPH	PU	4 hours	32
Pituitary Function Profile PITF PLAC Test (Lp-PLA2) PLA2 PLAS Plasminogen PLAG Plasminogen PLAG Plasminogen PLAG Plasminogen PLAG Plasminogen PLAG PLAG Plasminogen PLAG PLAG PLAG PLAG PLAG PLAG PLAG PLAG	Phospholipid Antibodies	PLIP	В	5 days	80
PLAC Test (Lp-PLA2) PLA2 3 2 days 3 Plasminogen PLAS (a) (Frozen plasma) (Fr	Pituitary Antibodies	PITU	B 4	1 month	80
Plasminogen PLAS (Frozen plasma) 4 5 days 33 Plasminogen Activator Inhibitor − 1 PAl1 (Frozen plasma) 2 weeks 33 Platelet Aggregation Studies PLAG J 5,6 3 days 34 Pleural Fluid for Culture FLUP SC 7 days 44 Pneumococcal Antibodies − Serotype Specific PASS (3 5 weeks 88 Pneumococcal Antibody Screen PNEU (3 7 days 80,88 Pneumococcal Antigen PNAG RU 1 day 40 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{‡‡} 2-3 days 44 Pneumonia (Atypical) Screen APS (3 2 days 97-96 Polcalcins ZZ25 (3 2 days 97-96 Polcalcins POLO (3 3 3 6 7 5 days 88 Polycystic Ovary Syndrome Profile PCOP (4 3 3 6 7 5 days 97-97 Porphyrin (Blood) PORP A 3 3 weeks 33 Porphyrins Faeces) FPOR RF 3 3 weeks 34 Porphyrins Screen (Total: Urine, Stool, Blood) PORS RPOR RPOR RPOR RPOR RPOR RPOR RPOR	Pituitary Function Profile	PITF	88	1 day	50,55
Plasminogen Activator Inhibitor −1 PAI1 ⑤ (Frozen plasma) 2 weeks 33 Platelet Aggregation Studies PLAG J 5.6 3 days 3 Pleural Fluid for Culture FLUP SC 7 days 44 Pneumococcal Antibodies – Serotype Specific PASS 3 5 weeks 8 Pneumococcal Antibody Screen PNEU 3 7 days 80,8 Pneumococcal Antigen PNAG RU 1 day 44 Pneumocystis Jiroveci (PCP) Examination PCYS BAL [±] 2-3 days 44 Pneumonia (Atypical) Screen APS 3 2 days 97-9 Polcalcins ZZ25 3 2 days 97-9 Polio Virus 1, 2, 3 Antibodies POLO 3 9 15 days 8 Polycystic Ovary Syndrome Profile PCOP 3 3 15 days 50,53 Polycystic Ovary Syndrome SHORT PCOS 3 0 4 hours 50,53 Porphyrin (Blood) PORP 3 3 15 days 3 Porphyrins Feaces) FPOR RF 3 3 weeks 3 Porphyrins	PLAC Test (Lp-PLA2)	PLA2	В	2 days	32
Platelet Aggregation Studies PLAG J 5.6 3 days 3 Pleural Fluid for Culture FLUP SC 7 days 44 Pneumococcal Antibodies – Serotype Specific PASS 3 5 weeks 80 Pneumococcal Antibody Screen PNEU 3 7 days 80,88 Pneumococcal Antigen PNAG RU 1 day 44 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{‡‡} 2-3 days 49 Pneumonia (Atypical) Screen APS 3 2 days 97-90 Polcalcins ZZ25 3 2 days 14 Polio Virus 1, 2, 3 Antibodies POLO 3 g 15 days 88 Polycystic Ovary Syndrome Profile PCOP 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Plasminogen	PLAS	(Frozen plasma) ⁴	5 days	32
Pleural Fluid for Culture Pleural Fluid for Culture FLUP SC 7 days 44 Pneumococcal Antibodies – Serotype Specific PASS 5 weeks 86 Pneumococcal Antibody Screen PNEU 7 days 80,88 Pneumococcal Antigen PNAG RU 1 day 44 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{‡‡} 2-3 days 47 Pneumonia (Atypical) Screen APS 1 2 days 97-90 Polcalcins ZZ25 1 2 days 14 Polio Virus 1, 2, 3 Antibodies POLO 1 9 15 days 88 Polycystic Ovary Syndrome Profile PCOP 1 15 days 88 Polycystic Ovary Syndrome SHORT PCOS 1 5 days 15 days 16 day	Plasminogen Activator Inhibitor – 1	PAI1	(Frozen plasma)	2 weeks	32
Pneumococcal Antibodies - Serotype Specific PASS ② 5 weeks 88 Pneumococcal Antibody Screen PNEU ③ 7 days 80,81 Pneumococcal Antibody Screen PNAG RU 1 day 44 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{±+} 2-3 days 44 Pneumonia (Atypical) Screen APS ③ 2 days 97-90 Polcalcins ZZ25 ③ 2 days 14 Polio Virus 1, 2, 3 Antibodies POLO ⑥ ⑨ 15 days 88 Polycystic Ovary Syndrome Profile PCOP ⑥ ⑥ ⑥ 7 5 days 50,50 Polycystic Ovary Syndrome SHORT PCOS ⑥ ⑥ 4 hours 50,50 Porphyrin (Blood) PORP ⑥ ③ 15 days 33 Porphyrins (Faeces) FPOR RF³ 3 weeks 33 Porphyrins Screen (Urine) RPOR RU³ 3 weeks 33 Porphyrins Screen (Urine) RPOR RU³ 3 weeks 33	Platelet Aggregation Studies	PLAG	J ^{5,6}	3 days	37
Pneumococcal Antibody Screen PNEU ③ 7 days 80,88 Pneumococcal Antigen PNAG RU 1 day 44 Pneumocystis Jiroveci (PCP) Examination PCYS BAL ^{‡‡} 2-3 days 44 Pneumonia (Atypical) Screen APS ③ 2 days 97-91 Polcalcins ZZ25 ④ 2 days 14 Polio Virus 1, 2, 3 Antibodies POLO ⑥ 9 15 days 80 Polycystic Ovary Syndrome Profile PCOP ⑥ ⑥ ⑥ 7 5 days 50,51 Polycystic Ovary Syndrome SHORT PCOS ⑥ 0 4 hours 50,52 Porphyrin (Blood) PORP ⑥ 3 15 days 33 Porphyrins (Faeces) FPOR RF³ 3 weeks 33 Porphyrins Screen (Urine) RPOR RU³ 3 weeks 33 Porphyrins Screen (Urine) RPOR RU³ 3 weeks 33	Pleural Fluid for Culture	FLUP	SC	7 days	40
Pneumococcal Antigen PNAG RU 1 day 44 Pneumocystis Jiroveci (PCP) Examination PCYS BAL# 2-3 days 44 Pneumocystis Jiroveci (PCP) Examination PCYS BAL# 2-3 days 97-98 Polealcins ZZ25 3 2 days 97-98 Policalcins ZZ25 3 2 days 14 Polio Virus 1, 2, 3 Antibodies POLO 3 3 15 days 88 Polycystic Ovary Syndrome Profile PCOP 3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 6 6 6 6 6	Pneumococcal Antibodies – Serotype Specific	PASS	В	5 weeks	80
Pneumocystis Jiroveci (PCP) Examination PCYS BAL# 2-3 days 44 Pneumonia (Atypical) Screen APS 3 2 days 97-91 Polcalcins ZZ25 3 2 days 14 Polio Virus 1, 2, 3 Antibodies POLO 3 g 15 days 85 Polycystic Ovary Syndrome Profile PCOP 3 3 G 6 7 5 days 50,53 Polycystic Ovary Syndrome SHORT PCOS 3 G 4 hours 50,53 Porphyrin (Blood) PORP 3 3 15 days 33 Porphyrins (Faeces) FPOR RF 3 3 weeks 33 Porphyrins Full Screen (Total: Urine, Stool, Blood) PORS 2 RU, RF 3 3 weeks 33 Porphyrins Screen (Urine) RPOR RU 3 3 weeks 33	Pneumococcal Antibody Screen	PNEU	В	7 days	80,89
Pneumonia (Atypical) Screen APS ② 2 days 97-96 Polcalcins ZZ25 ③ 2 days 14 Polio Virus 1, 2, 3 Antibodies POLO ③ ³ 15 days 88 Polycystic Ovary Syndrome Profile PCOP ④ ③ ③ ⑤ ⑥ 7 5 days 50,50 Polycystic Ovary Syndrome SHORT PCOS ⑤ ⑥ 4 hours 50,50 Porphyrin (Blood) PORP ④ ³ 15 days 33 Porphyrins (Faeces) FPOR RF ³ 3 weeks 33 Porphyrins Full Screen (Total: Urine, Stool, Blood) PORS ¾ RU, RF ³ 3 weeks 33 Porphyrins Screen (Urine) RPOR RU ³ 3 weeks 33	Pneumococcal Antigen	PNAG	RU	1 day	40
Polcalcins ZZ25 3 2 days 14 Polio Virus 1, 2, 3 Antibodies POLO 3 g 15 days 88 Polycystic Ovary Syndrome Profile PCOP 4 5 3 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Pneumocystis Jiroveci (PCP) Examination	PCYS	BAL ^{‡‡}	2-3 days	40
Polio Virus 1, 2, 3 Antibodies POLO 3 9 15 days 88 Polycystic Ovary Syndrome Profile PCOP 3 3 5 6 7 5 days 50,50 Polycystic Ovary Syndrome SHORT PCOS 3 6 7 4 hours 50,50 Porphyrin (Blood) PORP 3 3 15 days 33 Porphyrins (Faeces) FPOR RF 3 3 weeks 33 Porphyrins Full Screen (Total: Urine, Stool, Blood) PORS RU, RF 3 3 weeks 33 Porphyrins Screen (Urine) RPOR RU 3 3 weeks 33	Pneumonia (Atypical) Screen	APS	В	2 days	97-98
Polycystic Ovary Syndrome Profile PCOP Image: Control of the control	Polcalcins	ZZ25	В	2 days	141
Polycystic Ovary Syndrome SHORT PCOS 3 G 4 hours 50,55 Porphyrin (Blood) PORP 3 15 days 3 Porphyrins (Faeces) FPOR RF 3 3 weeks 3 Porphyrins Full Screen (Total: Urine, Stool, Blood) PORS RU, RF 3 3 weeks 3 Porphyrins Screen (Urine) RPOR RU 3 3 weeks 3	Polio Virus 1, 2, 3 Antibodies	P0L0	B 9	15 days	89
Porphyrin (Blood) PORP ♠3 15 days 33 Porphyrins (Faeces) FPOR RF³ 3 weeks 33 Porphyrins Full Screen (Total: Urine, Stool, Blood) PORS ♠ RU, RF³ 3 weeks 33 Porphyrins Screen (Urine) RPOR RU³ 3 weeks 33	Polycystic Ovary Syndrome Profile	PCOP	ABBB 67	5 days	50,55
Porphyrins (Faeces) FPOR RF³ 3 weeks 33 Porphyrins Full Screen (Total: Urine, Stool, Blood) PORS RU, RF³ 3 weeks 33 Porphyrins Screen (Urine) RPOR RU³ 3 weeks 33	Polycystic Ovary Syndrome SHORT	PCOS	B G	4 hours	50,55
Porphyrins Full Screen (Total: Urine, Stool, Blood) PORS Q RU, RF³ 3 weeks 33 Porphyrins Screen (Urine) RPOR RU³ 3 weeks 33	Porphyrin (Blood)	PORP	A 3	15 days	32
Porphyrins Screen (Urine) RPOR RU ³ 3 weeks 33	Porphyrins (Faeces)	FPOR	RF ³	3 weeks	32
	Porphyrins Full Screen (Total: Urine, Stool, Blood)	PORS	♠ RU, RF ³	3 weeks	32
Postnatal array CGH CGH Q G 9 10 days 116	Porphyrins Screen (Urine)	RPOR	RU ³	3 weeks	32
	Postnatal array CGH	CGH	A (1) 9	10 days	118

TEST	CODE	SAMPLE REQS	TAT	PAGE
Post-Travel Screen 1 (Prior to 6 weeks)	PTS	A B G 14	10 days	86-87
Post-Travel Screen 2 (Prior to 6 weeks)	PTS2	AABBB G 14	10 days	86-87
Potassium	K	В	4 hours	32
PR-10 Proteins	ZZ22	В	2 days	141
Prader-Willi Syndrome (Primary Screen) – methylation PCR	PWAM	A 9	5 days	118
Pre-Travel Screen (DVT)	DVT1	A B ⁹	5 days	36, 39, 86-87, 118, 128
Prealbumin	PALB	В	3 days	134
Pregnancy (Serum) [Quantitative]	QHCG	В	4 hours	32,50
Pregnancy Test (Urine)	PREG	RU	4 hours	32
Pregnanetriol (Urine)	UPTR	CU (Frozen)	5 days	50
Pregnenolone	PREN	В	15 days	50
Prenatal array CGH	CGH	Amniotic fluid or CVS 9	10 days	118
Primidone (Mysoline)	PRIM	B ⁴	3 days	130
Procalcitonin	PCAL	(Frozen) 4,7	1 day	32
Procollagen 1 Peptide N-Terminal (NTX)	P1NP	В	5 days	32
Procollagen III Peptide	PRC0	В	5 days	32
Products of Conception – rapid BOBs aneuploidy diagnosis for all chromosomes (5 days) + culture (25 days)	PBK	Placental Sample 1,9	5-25 days	119, 128
Products of Conception BOBs only — rapid aneuploidy diagnosis for all chromosome	KB0B	Placental Sample or Solid Tissue 1,9	3-6 days	119
Profilins	ZZ24	В	2 days	141
Progesterone	PROG	В	4 hours	50
Proinsulin	PR0I	(Frozen plasma) ⁴	5 days	50
Prolactin	PROL	B	4 hours	50
Prolactin (Macro)	PRLD	В	4 days	50
Propanalol	PR0	B ⁴	7 days	131
Propoxyphene	DPR0	RU	5 days	32
Prostate Profile (Total & Free PSA)	PR2	В	4 hours	99
Prostate Specific Antigen (Total)*	PSPA	В	4 hours	99
Prostatic Acid Phosphatase	PACP	(Frozen)	3 days	32
Protein (Urine)	UPRT	CU	4 hours	32
Protein 14.3.3 (Creutzfeldt–Jakob Disease)	CJD	CSF (Frozen)	5 weeks	32
Protein C	PRC	(Frozen) 4,9,18	3 days	37
Protein Electrophoresis incl. immunoglobin	PRTE	В	2-4 days	32
Protein S Activity	PS1	(Frozen)	5 days	37
Protein S Free Ag	FPRS	(Frozen) 4,9,18	3 days	37
Protein Total (Blood)	PROT	B	4 hours	32
Protein/Creatinine Ratio (Urine)	UCPR	RU	4 hours	32
Proteinase 3 Ab	PR3	B	2 days	80
	rnə	<u> </u>	2 uays	

	TEST	CODE	SAMPLE REQS	TAT	PAGE
	Prothrombin Time + Dose	PT+D	© 18	4 hours	36
	Purkinje Cell Antibody (Hu and Yo)	PURK	В	10 days	80
	Pyruvate Kinase (M2-PK)	M2ST	RF⁴	5 days	99
	Pyruvate Kinase (M2-PK)	M2PK	A	5 days	99
	QF-PCR rapid common aneuploidy screen	APC	AF / (A) 9	1-2 days	119
	Q Fever (C Burnetti) Antibodies	QFEV	B 9	10 days	80
	Rabies Antibody	RABI	В	10 days	89
	Rapid Strep (incl. m/c/s)	RAPS	STM**	1-3 days**	40
	Rapid Xpert HIV-1 RNA Qualitative – Early Detection from 10 days	LHIV	(Vacutainer only)	4 hours	65,76
	Rapid Xpert HIV-1 RNS Viral Load - Rapid Testing for HIV-Positive Patient Prognosis and Response To Antiretroviral Therapy	RHIV	(Vacutainer only)	4 hours	66,76
NEW	Recurrent Fever Screening – across 4 genes	GENE	AA	6 weeks	119
	Recurrent Miscarriage Profile (female)	RMP	A A B C C C H 9,18	10-15 days	119,128
	Renal Calculi Screen (Metabolic)	RSPR	J ⁶	5 days	32
	Renal Stone Analysis	RSTA	STONE	10 days	32
	Renin	RENI	(Frozen plasma) ³⁶	5 days	50
	Reproductive Immunophenotype Panel	3RF	000	1 week	52
NEW	Respiratory Viral RNA Screen by PCR	FLU4	PCR nasopharyngeal	48 hours	97-98
	Reticulocyte Count	RETC	A	4 hours	36
	Retinol Binding Protein	RBP	В	3 days	32
	Retrograde Ejaculation	RTR0	Contact Lab	2 days	61
	Reverse T3	RT3	B 7,37	10 days	50
	Rheumatoid Factor (Latex Test)	RF	<u> </u>	1 day	80
	Rheumatology Profile 1 (Screen)	RH	A B	2 days	80,84
	Rheumatology Profile 2 (Connective tissue)	RH2	AABB	3 days	80,84
	Rheumatology Profile 3 (Rheumatoid/Basic)	RH3	A B	2 days	80,84
	Rheumatology Profile 4 (Systemic Lupus)	RH4	ABB	2 days	80,84
	Rheumatology Profile 5 (Mono Arthritis)	RH5	AABB	3 days	80,84
	Rheumatology Profile 6 (Rheumatoid Plus)	RH6	В	2 days	80,84
	Rheumatology Profile 7 (Sjogren's Syndrome)	RH7	В	10 days	80,84
	Rhinitis Provoking Profile	ALRN	<u> </u>	2 days	134
	Rickettsial Species Antibody Profile	RICK	B	7 days	80,86
	Risperidone	RISP	A ⁴	7 days	131
	Rotavirus in Stool by PCR	ROTA	RF	1 day	97
	RPR (VDRL)	RPR	<u> </u>	2 days	66,80
	Rubella Antibody (IgG)	RUBE	<u> </u>	4 hours	89,97
	Rubella Antibody (IgM)	RUBM	<u> </u>	4 hours	89,97
	Rubella Avidity	RUAV	<u> </u>	1 week	97
	Rubella PCR	RUBP	(A) / Amniotic Fluid	5 days	89
	S100 Malignant Melanoma	S100	В	4 days	99

TEST	CODE	SAMPLE REQS	TAT	PAGE
Saccharomyces Cerevisiae Antibodies	ASCA	B	2 weeks	80
Salicylates	SALI	В	4 hours	32
Salivary Duct Antibodies	SAB	B	12 days	80
SARS-CoV-2 (COVID-19) Abbott IgG Antibody	GCOV	SST/Serum (3) * (Venous)	24 hours	97
SARS-CoV-2 (COVID-19) RNA by PCR	NCOV	PCR Swab (nasal/pharyngeal)	48 hours	97
SARS-Cov-2 (COVID-19) Roche Elecsys Anti-SARS-CoV-2 Total Antibody	TCOV	SST/Serum (3** (Venous and Capillary)	24 hours	97
Schistosoma (Urine)	USCH	Mid-morning terminal urine	8 hours	41
Schistosome (Bilharzia) Antibodies	BILH	B 14	10 days	86
Schistosome Antigen	SHAG	В	15 days	86
Scleroderma Immunoblot	SCLI	В	5 days	80
Screening Profile 1 – Biochemistry	PP1	BG	4 hours	22
Screening Profile 2 – Haematology/Biochemistry	PP2	A B G	4 hours	22
Screening Profile 3 – Haematology	PP3	A	4 hours	22, 36, 39
Screening Profile 4 – Haematology/Biochemistry (Short)	PP4	A B G	4 hours	22
Screening Profile 5 – Haematology/Biochemistry (Postal)	PP5	A B G	4 hours	22
Screening Profile 6 – Well Person	PP6	A B G	4 hours	22
Screening Profile 7 – Well Man	PP7	A B G	4 hours	23
Screening Profile 8 – Well Person	PP8	A B G	2 days	23
Screening Profile 9F – Senior Female	PP9F	(A) (B) (B) (C) RU QFIT ⁴	2 days	23
Screening Profile 9M – Senior Male	PP9M	(A) (B) (B) (C) RU QFIT ⁴	2 days	23
Screening Profile 10 – Cardiovascular Risk 1	PP10	BB	3 days	23, 28, 35
Screening Profile 11 – Cardiovascular Risk 2	PP11	BBB C 34	3 days	23, 28, 35
Screening Profile 12 – Sexual Health Screen	PP12	FCRU/PCR/TPV/Semen	2 days	23, 65, 75, 160
Seed Storage Proteins	ZZ26	B	2 days	141
Selenium (Serum)	SELE	B	4 days	33,144
Selenium (Whole Blood)	SELR	(A) or (1)	4 days	33,144
Sellotape Test	SELL	Send Sample***	1 day	41
Semen Analysis, Comprehensive*	SPER	Semen ¹	2 days*	61
Semen Analysis, Post-Vasectomy**	PVAS	Semen ¹	2 days	61
Semen Analysis, Vasectomy Reversal*	SPER	Semen ¹	2 days*	61
Semen Culture	SPCU	Semen	2-4 days	41, 61
Semen Fructose	SPCF	Semen	2 days	61
Semen Leucocytes	PMNS	Semen	2 days	61
Semen Parameters	SPOD	Semen ¹	1 day	61
Semen Zinc	SPCZ	Semen	up to 10 days	61
Serotonin	SERT	(Frozen whole blood) ¹	10 days	50
Serotonin (Urine)	USER	PU 50mls (Frozen) ¹	5 days	50
Serum Albumins	ZZ30	3	2 days	141
Serum Free Light Chains	SLC	B	1 week	33

TEST	CODE	SAMPLE REQS	TAT	PAGE
Sex Hormone Binding Globulin	SHBG	В	4 hours	50
Shrimp Components	ZZ17	В	2 days	141
Sickle Solubility	SS0L	A	4 days	38
Silver (Blood)	SILV	В	5 days	33,155
Silver (Urine)	USIL	RU	5 days	33,156
Sinequan (Doxepin)	DOXE	A	10 days	131
Sirolimus	SIR0	A	3 days	131
Sjogren's Syndrome	RH7	В	2 days	80,84
Skin (Pemphigus/Pemphigoid) Autoantibodies	SKAB	В	2 days	80
Skin Antibodies by Immunofluorescence	STSK	В	1 month	80
Skin Scrapings/Mycology by PCR	DERM	Send Sample	3-7 days	41
Sleeping Sickness Serology (African Trypanosomiasis)	TRYP	B 9	10 days	80
Smith-Magenis Syndrome - BOBs (5 days) + karyotype (15 days)	PBOB, KARY	CVS/AF/(A) (1) 9	5-15 days	120
Smith-Magenis Syndrome – BoBs only	PB0B	CVS/AF/(A) 9	5 days	120
Smooth Muscle Antibodies	ASM0	B	2 days	80
Sodium	NA	B	4 hours	33
Somatomedin (IGF-1)	SOMA	(Frozen)4	1 day	50
Soybean Components	ZZ18	B	2 days	141
Specific Gravity (Urine)	USG	RU	24 hours	41
Sperm Aneuploidy	SPPL	Semen ¹	4 weeks	61
Sperm Antibodies (Serum)	ASAB	B	5 days	61,80
Sperm Antibodies/MAR Test (Semen)†	ASPA	Semen	1 day	61
Sperm Comet®	CMET	Semen	1-2 weeks	61
Sperm Count (Post-Vasectomy)	PVAS	Semen ¹	2 days	61
Sperm DNA Fragmentation (SCSA)	SEXT	Semen ¹	1-2 weeks	61
Sperm Morphology (Kruger strict criteria)	MRPH	Semen ¹	2 days	61
Spinal Muscular Atrophy - SMN1 deletions/duplications	SMA	A 9	10 days	120
Sports/Performance Profile	SPOR	AAABBB G 6 6 4	5 days	143-144
Sputum for Routine Culture	SPU1	SC	2-4 days	41
Sputum for TB Culture (AFB)	SPU2	SC	up to 8 weeks	41
Squamous Cell Carcinoma	SCC	B	4 days	99
SRY (Sex-determining Region Y)	SRY	A 9	2 days	120
STD1 M/F STD Quad	STD1	(3) FCRU	2 days	66,74
STD2 M/F STI Profile Plus (Urine and Serology)	STD2	FCRU (If culture swabs are needed please request separately)	4 days	66,74
STD3 Female STD Quad (PCR Swab and Serology)	STD3	3 PCR	2 days	66,74
STD4 Female STI Profile Plus (PCR Swab and Serology)	STD4	PCR (If culture swabs are needed please request separately)	4 days	66,74

TEST	CODE	SAMPLE REQS	TAT	PAGE
STD5 Serology only	STD5	B	4 hours	66,74
STD6 Serology only without HIV	STD6	B	4 hours	66,74
STD8 Vaginitis/BV Profile using Culture & PCR Swab	STD8	PCR/STM	3 days	66,75
STD9 Symptomatic lesion sample using PCR Swab from lesion & PCR Swab	STD9	2 x PCR Swab	7 days	66,75
Steroid Cell Antibody	SCA	B	2 days	80
STI Profile: MSM1	MSM1	(i) /FCRU/PCR Swab Throat/PCR Swab Rectal	2 days	66,76
STI Profile: MSM2	MSM2	(i) /FCRU/PCR Swab Throat/PCR Swab Rectal	3 days	66,76
Stool for OCP and Culture	PENT	RF	2-3 days	41
Stool for OVA Cysts & Parasites by PCR	0CP	RF	1 day	41
Stool Reducing Substances	STRS	RF ⁷	5 days	41
Streptomycin Levels	STRM	G	5 days	131
Striated/Skeletal Muscle Antibody	STRA	3	2 days	80
Strongyloides Antibodies	STGA	B	10 days	80
Sulpiride	SULP	B 4	4 days	131
Superoxide Dismutase Inhibitor	SODI	A / ()	5 days	33
Suppression with steroid, IVIg and intralipin, NK (CD69) cell assay, TH1/TH2 cytokines	NCIT	000*	Send Mon-Thurs only	53
Swab (Ear)	EARS	STM	2-4 days (Culture) 8-9 days (Fungal) – same swab	41
Swab for Culture (Any Site)	SWAB	STM [†]	2-4 days	41,66
Synacthen Stimulation Test	SYNA	By appointment only	1 day	129
Synovial Fluid (for microscopy and culture)	FLU2	SC†††	14 days	41
Syphilis by PCR (chancre)	SYPS	PCR	5 days	66
Syphilis IgG/IgM	SERJ	В	4 hours	66, 80
T Regulatory Cells	25RF	•	3 days	52
T3	T3	<u>B</u>	4 hours	50
T3 (Reverse)	RT3	B 7,37	10 days	50
Tacrolimus/Prograf (FK506)	FK5	A ⁴	1-2 days	131
Taipan Snake Venom Time	TTVT	© 18	1 week	37
TB (pleuralfluid)	TBCU	SC	up to 8 weeks	41
TB Culture			to Oalia	41
	SPU2	SC	up to 8 weeks	71
TB Culture (Urine)	SPU2 TBUR	SC 3 x EMU	up to 8 weeks	41
TB Culture (Urine) TB Quantiferon®-TB Gold*			•	
	TBUR	3 x EMU	up to 8 weeks	41
TB Quantiferon®-TB Gold*	TBUR TBQ4	3 x EMU Special tubes or 🕕¹	up to 8 weeks 3 days	41 80
TB Quantiferon®-TB Gold* TB Slopes – Confirmation and Sensitivity	TBUR TBQ4	3 x EMU Special tubes or 🕕¹	up to 8 weeks 3 days	41 80 41

TEST	CODE	SAMPLE REQS	TAT	PAGE
Temazepam	TEMA	B 4	4 days	131
Testicular Autoantibodies	TAB	В	2 days	80
Testicular Tumour Profile	TTP	В	4 hours	99
Testosterone	TEST	В	4 hours	50
Testosterone (Bioavailable)	BTES	В	5 days	50
Testosterone (Free)	FTES	В	3 days	50
Tetanus Antibody	TETA	В	5 days	80,89
TH1/TH2 Cytokine Profile	1TH2	000*	Send Mon-Thurs only	53
TH1/TH2 Cytokine Ratio	6RF	000 5	1 week	52
TH1/TH2 Intracellular Cytokine Ratios with IVIG, Prednisolone	20RF	000 ⁵	1 week	52
TH1/TH2 Intracellular Cytokine Ratios with Prednisolone	22RF	000⁵	1 week	52
TH1/TH2 Intracellular Cytokine Ratios with IVIG	21RF	000⁵	1 week	52
Thalassaemia Screen	HBEL	A	4 days	38
Thallium (Blood)	THAL	A / H	1 week	156
Thallium (Urine)	URTH	RU	1 week	156
Theophylline	THE0	В	4 hours	131
Thiopurine Methyl Transferase	TPMT	A 5	5 days	33
Thrombin Time	THR0	() 18	4 hours	36
Thrombotic Risk Profile	PR0P	AABOO 18	5 days	37,39, 120,128
Thyroglobulin Abs	TGAB	В	1 day	51
Thyroglobulin Assay	TGA	В	1 day	51
Thyroid Abs (incl. Thyroglobulin + Thyroid Peroxidase Abs)	THAB	В	1 day	51,80
Thyroid Peroxidase Antibodies/Anti TPO	TPEX	В	1 day	51,80
Thyroid Profile 1	TF	В	4 hours	51,54
Thyroid Profile 2	TF2	В	2 days	51,54
Thyroid Profile 3	TF3	В	4 hours	51,54
Thyroxine (T4)	T4	В	4 hours	51
Thyroxine Binding Globulin	TBG	(Frozen)	10 days	51
Timothy Grass Components	ZZ19	В	2 days	141
Tissue for culture	TISS	Tissue sample	up to 14 days	41
Tissue Polypeptide Antigen	TPA	В	1 week	33
Tissue Transglutaminase IgA (Coeliac)**	TAA	В	2 days	80
Tissue Transglutaminase IgG	TAAG	В	5 days	80
Tobramycin Assay (Provide Clinical Details)	TOBR	₿	3 days	129
Toluene (Blood)	TOL	J	10 days	156
Toluene (Urine)	UT0L	RU	10 days	156
Topiramate (Topamax)	TOPI	B ⁴	4 days	131
Torch Screen	TORC	B	2 days	80, 97-98
Total Acid Phosphatase	APT	<u> </u>	5 days	33

TEST	CODE	SAMPLE REQS	TAT	PAGE
Total Bile Acid/Bile Salts	BILS	В	1 week	33
Total IgE	IGE	В	1 day	33, 80, 136
Total Immune Function Evaluation	TIE	A + B 5,10	7 days	80
Toxocara Antibodies (IgG)	TFAT	B 9	5 days	80
Toxoplasma Antibodies (IgG+IgM)	TFAM	B 9	4 hours	80, 86
Toxoplasma Antibody Full Evaluation (IgM, Dye Test, IgG Avidity)	TDYE	B 9	10 days	81
Toxoplasma by PCR	TXAG	A	5 days	81
ТРРА	TPPA	В	2 days	66, 81
Trace Metal (Blood) Profile	TRAC	AB()(7-10 days	155
Transferrin	TRAN	В	1 day	33
Transferrin Electrophoresis	TREL	В	2 weeks	33
Trichinella Serology	TRIC	В	5 days	81
Trichloracetic Acid (Urine)	UTCA	RU	5 days	156
Trichomonas vaginalis by PCR	TVPC	FCRU/PCR/TPV	2 days	66, 160
Triglycerides	TRI	В	4 hours	33
Trimethylaminuria (Fish Odour Syndrome)	FOS	PU	6 weeks	33
Trimipramine	TRIM	A	5 days	131
Tropical Screen (from 6 weeks post-travel)	TROP	B B 9,14	10 days	86-87
Tropomyosins	ZZ31	В	2 days	141
Troponin T (High sensitive)	TROT	В	4 hours	33
Trypanosome (Chagas) Antibodies	CHGA	B 9,14	10 days	81
Tryptase	STRY	В	2 days	33, 134
TSH	TSH	В	4 hours	51
TSH-Receptor Antibodies	TSI	В	4 days	51, 81
Tularaemia Antibodies	TULA	B 14	5 days	81
Tumour Necrosis Factor – Alpha	TNF	⑤ (Frozen) ⁴	2 weeks	33
Uni Parental Disomy (UPD) – parents and child – Specify chromosome	Specify type	A 9,12	5 days	120
Urate (Uric acid)	UA	В	4 hours	33
Urea	UREA	В	4 hours	33
Urea (Urine)	UURE	CU	4 hours	33
Urea and Electrolytes	U/E	В	4 hours	33,34
Urea Electrolytes (Urine)	UELE	CU	4 hours	33
Ureaplasma urealyticum by PCR	UGEN	FCRU/PCR/TPV	2 days	66,160
Uric Acid (Serum)	UA	В	4 hours	33
Uric Acid (Urine)	UURI	CU	4 hours	33
Urinary Methyl Histamine	UHIT	RU (Frozen)	2 weeks	81
Urine (Microscopy Only)	UMIC	RU	1 day	41
Urine Cytology (Urine cytology containers available from TDL Supplies)	URCY	Urine (30mls) ²¹	2 days	165
Urine EtG (Ethyl glucuronide)	ETG	RU	1 week	153
Urine for Microscopy and Culture	UCEM	MSU††††	1-2 days	41
Urine Free Light Chains	UFLC	RU	1 week	33

Urine Steroid Screen (Steroid Hormones) USTE CU or RU s 2 weeks 33 Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks 33 Urobilinogen (Urine) UURO RU 1 day 33 Urobilinogen (Urine) UURO RU 1 day 33 Valium (Diazepam) CURT € 10-14 days 81 Valium (Diazepam) DIAZ 6 7 days 131 Valproic Acid (Epilim) VALP 3 4 hours 131 Vanceular Endodies (IgG) VANC 6 4 hours 128 Varicella Zoster Antibodies (IgG) VZOS 6 1 day 89,97 Varicella Zoster Antibodies (IgG) VZOS 6 1 day 89,97 Varicella Zoster Antibodies (IgG) VZOS 6 1 day 89,97 Varicella Zoster Antibodies (IgG) VZOM 3 1 day 89,97 Varicella Zoster Antibodies (IgG) VZOM 3 1 day 89,97 Varicella Zoster Antibodies (IgG)	TEST	CODE	SAMPLE REQS	TAT	PAGE
Urine Sugar Chromatography UCRO RU (Frozen) 3 weeks 33 Urobilinogen (Urine) UURO RU 1 day 33 Uritciaria Test (Ristamine Releasing) CURT 3 10-14 days 81 Valium (Diazepam) DIAZ 4 7 days 131 Valoroic Acid (Epillim) VALP 9 4 hours 131 Vancowich Hydrochloride VANC 6 4 hours 129 Varicella Zoster Antibodies (IgG) VZOS 6 1 day 89,97 Varicella Zoster Antibodies (IgM) VZOM 6 1 day 89,97 Varicella Zoster Antibodies (IgM) VZOM 6 1 days 89,97 Varicella Zoster Antibodies (IgM) VZOM 6 1 days 89,97 Varicella Zoster Antibodies (IgM) VZOM 6 1 days 89,97 Varicella Zoster Antibodies (IgM) VZOM 6 1 days 89,97 Varicella Zoster Antibodies (IgM) VZOM 6 1 days 81 VPR (Igmani Egilla Comp	Urine Organic Acids	UORG	RU (Frozen)	3 weeks	33
Urobilingen (Irine) UURO RU 1 day 33 Urticaria Test (Histamine Releasing) CURT 3 10-14 days 81 Vaginitis/RV Profile using Culture & PCR Swab STD8 PCR/STM 3 days 66,75 Valuproic Acid (Epilim) VALP 4 4 hours 131 Vancolla (Epilim) VALP 3 4 hours 131 Vancolla Zoster Antibodies (IgG) VADC 4 4 hours 129 Varicella Zoster Antibodies (IgG) VZOS 1 day 89,97 Varicella Zoster Antibodies (IgG) VZOM 3 1 day 89,97 Varicella Zoster Antibodies (IgG) VZOM 3 1 days 89,97 Varicella Zoster Antibodies (IgG) VZOM 3 1 days 89,97 Varicella Zoster Antibodies (IgG) VZOM 3 1 days 89,97 Varicella Zoster Antibodies (IgG) VZOM 3 1 days 89,97 Varicella Zoster Antibodies (IgG) VZOM 3 1 days 81	Urine Steroid Screen (Steroid Hormones)	USTE	CU or RU ⁹	2 weeks	33
Urticaria Test (Histamine Releasing) Vaginitis/BV Profile using Culture & PCR Swab STD8 PCR/STM 3 days 66,75 Valium (Diazepam) DIAZ 0 7 days 131 Valproic Acid (Epilim) VALP 3 4 hours 131 Vancomycin Hydrochloride VANC 4 hours 132 Varicella Zoster - DNA Varicella Zoster Antibodies (IgG) Varicella Zoster Antibodies (IgG) VZOS 1 day 89,97 Varicella Zoster Antibodies (IgM) VZOM 1 days 81 Venom Components VEGF 1 days 81 Venom Components 2 days 81 Very Long Chain Fatty Acids VLCF 1 or (1) (Frozen) 4 de weeks 33 1 de ye days 141 Very Long Chain Fatty Acids VLCF 1 or (1) (Frozen) 4 de weeks 33 1 or (2) days 1 day Varia Antibody Screen VIRA 3 days 97-98 Viral Respiratory RNA Screen by PCR VPE PCR or as specified on the form 1 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Respiratory RNA Screen by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97 Viral Skin/Mucosa by PCR Viral Ski	Urine Sugar Chromatography	UCR0	RU (Frozen)	3 weeks	33
Valum (Diazepam)	Urobilinogen (Urine)	UUR0	RU	1 day	33
Valium (Diazepam) DIAZ ↑ 7 days 131 Valproic Acid (Epitim) VALP 3 4 hours 131 Vancoruycin Hydrochloride VANC 3 4 hours 129 Varicella Zoster - DNA VZPC 4 5 days 97 Varicella Zoster Antibodies (Ig6) VZOM 3 1 day 88,97 Varicella Zoster Antibodies (Ig6M) VZOM 6 1 days 89,97 Vascular Endothelial Growth Factor VEGF 3 1 days 89,97 Vascular Endothelial Growth Factor VEGF 3 1 days 89,97 Vascular Endothelial Growth Factor VEGF 3 1 days 81 Venom Components 2233 3 2 days 141 Very Long Chain Fatty Acids VLCF 3 or (frozen)*3 4 - 6 weeks 33 Vigabatrin (Sabrii) VIGA 6 10 days 131 Viral Antibody Screen VIRA 3 (3 2 days 97-98 Viral Eye by PCR VPE PCR or as specif	Urticaria Test (Histamine Releasing)	CURT	3	10-14 days	81
Valproic Acid (Epilim)	Vaginitis/BV Profile using Culture & PCR Swab	STD8	PCR/STM	3 days	66,75
Vancomycin Hydrochloride VANC 3 4 hours 129 Varicella Zoster – DNA VZPC 3 5 days 97 Varicella Zoster Antibodies (IgG) VZOS 3 1 day 89,97 Varicella Zoster Antibodies (IgM) VZOM 3 1 day 89,97 Varicella Zoster Antibodies (IgM) VZOM 3 1 day 89,97 Vascular Endohellal Growth Factor VEGF 3 14 days 81 Vendella Growth Factor VEGF 3 1 days 81 Venom Components ZZ33 3 2 days 81 Very Long Chain Fatty Acids VLCF 3 or (1) (Frozen)³ 4 -6 weeks 33 Vigabatrin (Sabril) VIGA 3 10 days 131 Viral Antibody Screen VIRA 3 (3) 2 days 97-98 Viral Espiratory RNA Screen by PCR VPR PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPSK PCR 2 days 97-98 Viscosity (Plasma)	Valium (Diazepam)	DIAZ	A	7 days	131
Varicelia Zoster – DNA VZPC ⑤ days 97 Varicella Zoster Antibodies (IgG) VZOS ③ 1 day 89,97 Varicella Zoster Antibodies (IgM) VZOM ⑥ 1 day 89,97 Vascular Endothelial Growth Factor VEGF ⑥ 14 days 81 VBDRL (RPR) RPR ⑥ 2 days 81 VBPROM Components ZZ33 ⑥ 2 days 141 Vernom Components ZZ33 ⑥ 2 days 141 Vernom Components ZZ33 ⑥ 2 days 141 Vernom Components ZZ33 ⑥ 1 days 131 Viral Creation Fatty Acids VLCF ② or ① (Frozen)³ 4 -6 weeks 33 Vigabatrin (Sabril) VIGA ⑥ 10 days 131 Viral Eye by PCR VPE PCR 3 days 97-98 Viral Eye by PCR VPR PCR or as specified on the form 2 days 97-98 Viral Respiratory RNA Screen by PCR VPSK PCR 2 days	Valproic Acid (Epilim)	VALP	3	4 hours	131
Varicella Zoster Antibodies (IgG) VZOS 3 1 day 89,97 Varicella Zoster Antibodies (IgM) VZOM 3 1 day 89,97 Vascular Endothelial Growth Factor VEGF 3 1 days 81 VDRL (RPR) RPR 3 2 days 81 Venom Components ZZ33 3 2 days 141 Very Long Chain Fatty Acids VLCF 4 6 10 days 131 Viga Chain Fatty Acids VLCF 4 6 10 days 131 Viga Datrin (Sabril) VIGA 4 6 10 days 131 Viral Antibody Screen VIRA 3 2 days 97-98 Viral Eye by PCR VPE PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97-98 Viral Respiratory RNA Screen by PCR VPP PCR or as specified on the form 2 days 97-98 Viral Respiratory RNA Screen by PCR VPS PCR or as specified on the form	Vancomycin Hydrochloride	VANC	B	4 hours	129
Varicella Zoster Antibodies (IgM) VZOM 3 1 day 89,97 Vascular Endotheilal Growth Factor VEGF 3 14 days 81 VDRL (RPR) RPR 3 2 days 81 Venom Components ZZ33 3 2 days 141 Very Long Chain Fatty Acids VLCF 3 or (1) (Frozen)³ 4-6 weeks 33 Vigabatrin (Sabril) VIGA 3 10 days 131 Viral Antibody Screen VIRA 3 (2) 2 days 97-98 Viral Eye by PCR VPE PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97-89 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97-89 Viscosity (Plasma) VISC 4 3 days 37 Vitamin B (Functional) VITA 3 5 days 144 Vitamin B (Functional) VITA 3 5 days 143-144 Vitamin B (Functional) VITA <t< th=""><th>Varicella Zoster – DNA</th><th>VZPC</th><th>A</th><th>5 days</th><th>97</th></t<>	Varicella Zoster – DNA	VZPC	A	5 days	97
Vascular Endothelial Growth Factor VEGF 3 14 days 81 VDRL (RPR) RPR 3 2 days 81 Venom Components ZZ33 3 2 days 141 Very Long Chain Fatty Acids VLCF 3 or (1) (Frozen)³ 4-6 weeks 33 Vigalatrin (Sabril) VIGA 3 10 days 131 Viral Antibody Screen VIRA 3 (2) 2 days 97-98 Viral Eye by PCR VPE PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97-98 Viscosity (Plasma) VISC QFR 2 days 97-98 Viscosity (Plasma) VISC Q*4 3 days 37 Vitamin B (Functional) VITA 3 days 37 Vitamin B (Functional) VITA 3 days 144 Vitamin B (Finctional) VITA 3 days 143 Vitamin B (Riboflavin) VIB2 3 days 144 Vitamin B (Riboflavin)	Varicella Zoster Antibodies (IgG)	VZ0S	B	1 day	89, 97
VDRL (RPR) RPR 3 2 days 81 Venom Components ZZ33 3 2 days 141 Very Long Chain Fatty Acids VLCF 3 or () (Frozen)³ 4-6 weeks 33 Vigabatrin (Sabril) VIGA 10 days 131 Viral Antibody Screen VIRA 10 Gays 2 days 97-98 Viral Eye by PCR VPE PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97-98 Viscosity (Plasma) VISC PCR 2 days 97-98 Viscosity (Plasma) VISC 4 3 days 37 Vitamin B (Functional) VITA 3 days 37 Vitamin B (Functional) FUNC 2 days 144 Vitamin B Profile VBP 3 days 144 Vitamin B (Functional) VIT1 3 days 144 Vitamin B 2 (Riboflavin) VIB2 3 days 144 Vitamin B 2 (Riboflavin) VIB2 3 days	Varicella Zoster Antibodies (IgM)	VZOM	3	1 day	89, 97
Venom Components ZZ33 3 2 days 141 Very Long Chain Fatty Acids VLCF ♠ or ♠ (Frozen)³ 4-6 weeks 33 Vigabatrin (Sabril) VIGA ♠ 10 days 131 Viral Antibody Screen VIRA ♠ 6 2 days 97-98 Viral Eye by PCR VPE PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97-98 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97-88 Viscosity (Plasma) VISC ♠ 4 3 days 37 Vitamin A (Retinol) VITA ♠ 5 days 144 Vitamin B (Functional) FUNC ♠ 6 or ♠ 13° 5 days 144 Vitamin B Profile VBP ♠ 6 or ♠ 13° 5 days 144 Vitamin B Profile VBP ♠ 6 or ♠ 13° 5 days 144 Vitamin B Q (Riboflavin) VIB2 ♠ 5 days 144 Vitamin B Q (Riboflavin) VIB2 ♠ 5 days 144 <th>Vascular Endothelial Growth Factor</th> <th>VEGF</th> <th>3</th> <th>14 days</th> <th>81</th>	Vascular Endothelial Growth Factor	VEGF	3	14 days	81
Very Long Chain Fatty Acids VLCF ③ or ⑥ (Frozen) ⑤ 4 - 6 weeks 33 Vigabatrin (Sabril) VIGA ⑤ 10 days 131 Viral Antibody Screen VIRA ⑥ ② 2 days 97-98 Viral Eye by PCR VPE PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97-98 Virscosity (Plasma) VISC ♣ 4 3 days 37 Vitamin B (Functional) VITA ⑥ □ ♠ 4 3 days 37 Vitamin B Profile VBP ⑥ ② ② □ ⑥ □ ♠ 3 days 144 Vitamin B Profile VBP ② ② □ ⑥ □ ♠ 3 days 144 Vitamin B Profile VBP ② ② □ ⑥ □ ♠ 3 days 144 Vitamin B Profile VBP ② ② □ ⑥ □ ♠ 3 days 144 Vitamin B I (Thiamine) VITI ⑥ □ ♠ 3 days 144 Vitamin B I (Thiamine) VIB ⑥ □ ♠ 3 days <	VDRL (RPR)	RPR	3	2 days	81
Vigabatrin (Sabril) VIGA (1) 10 days 131 Viral Antibody Screen VIRA (3) 2 days 97-98 Viral Eye by PCR VPE PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97-98 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97-98 Viscosity (Plasma) VISC (3) 3 days 37 Vitamin B (Functional) VITA (1) 5 days 144 Vitamin B Frofile VBP (3) 0 or (1) 3 5 days 144 Vitamin B I (Thiamine) VIT1 (2) 5 days 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144 144	Venom Components	ZZ33	3	2 days	141
Viral Antibody Screen VIRA ③ ⑥ ② 2 days 97-98 Viral Eye by PCR VPE PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97-98 Viscosity (Plasma) VISC ¾ 4 3 days 37 Vitamin A (Retinol) VITA ⑤ 5 days 144 Vitamin B (Functional) FUNC ⑥ ⑥ or ⑥ 1³3 5 days 144 Vitamin B Profile VBP ⑥ ⑥ 1³3 5 days 144 Vitamin B1 (Thiamine) VIT11 ⑥ 5 days 144 Vitamin B2 (Riboflavin) VIB2 ⑥ 5 days 144 Vitamin B3 (Nicotinamide) VIB3 ⑥ 5 days 144 Vitamin B5 (Pantothenic Acid) VBSS ⑥ 5 days 144 Vitamin B8 (Biotin) BIOS ⑥ 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF ⑥ 2 days 144 Vitamin B12 (Active) <th< th=""><th>Very Long Chain Fatty Acids</th><th>VLCF</th><th>A or (Frozen) 9</th><th>4-6 weeks</th><th>33</th></th<>	Very Long Chain Fatty Acids	VLCF	A or (Frozen) 9	4-6 weeks	33
Viral Eye by PCR VPE PCR 3 days 97-98 Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97-98 Viscosity (Plasma) VISC ♣ 4 3 days 37 Vitamin A (Retinol) VITA 3 days 37 Vitamin B (Functional) FUNC ♠ 0 or ♠ 13 5 days 144 Vitamin B (Functional) FUNC ♠ 0 or ♠ 13 5 days 144 Vitamin B (Functional) VITI ♠ 5 days 144 Vitamin B1 (Thiamine) VITI ♠ 5 days 144 Vitamin B2 (Riboflavin) VIB2 ♠ 5 days 144 Vitamin B3 (Nicotinamide) VIB3 ♠ 5 days 144 Vitamin B5 (Pantothenic Acid) VBSS ♠ 5 days 144 Vitamin B8 (Biotin) BIOS ♠ 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF ♠ 6 days 144 Vitamin B12 (Active) B12	Vigabatrin (Sabril)	VIGA	A	10 days	131
Viral Respiratory RNA Screen by PCR VPR PCR or as specified on the form 2 days 97 Viral Skin/Mucosa by PCR VPSK PCR 2 days 97-98 Viscosity (Plasma) VISC ∆⁴ 3 days 37 Vitamin A (Retinol) VITA 3 5 days 144 Vitamin B (Functional) FUNC ⚠ ♠ or ♣ 1³ 5 days 144 Vitamin B Profile VBP ♠ ♠ 3 5 days 143-144 Vitamin B (Riboflavin) VIB2 ♠ 5 days 144 Vitamin B2 (Riboflavin) VIB2 ♠ 5 days 144 Vitamin B3 (Nicotinamide) VIB3 3 5 days 144 Vitamin B5 (Pantothenic Acid) VB5S 3 5 days 144 Vitamin B6 (Pyridoxine) VITB ♠ 5 days 144 Vitamin B9 (Folic acid) — Red cell RBCF ♠ 2 days 144 Vitamin B12 (Active) B12 3 1 day 33,144 Vitamin B12 (Active)/ Red Cell Folate B12F <th>Viral Antibody Screen</th> <th>VIRA</th> <th>88</th> <th>2 days</th> <th>97-98</th>	Viral Antibody Screen	VIRA	88	2 days	97-98
Viral Skin/Mucosa by PCR VPSK PCR 2 days 97-98 Viscosity (Plasma) VISC ∆4 3 days 37 Vitamin A (Retinol) VITA 3 5 days 144 Vitamin B (Functional) FUNC ♠ ♠ or ♣ i³ 5 days 144 Vitamin B Profile VBP ♠ ♠ 3 3 5 days 144 Vitamin B1 (Thiamine) VIT1 ♠ 5 days 144 Vitamin B2 (Riboflavin) VIB2 ♠ 5 days 144 Vitamin B3 (Nicotinamide) VIB3 3 5 days 144 Vitamin B5 (Pantothenic Acid) VB5S 3 5 days 144 Vitamin B6 (Pyridoxine) VITB ♠ 5 days 144 Vitamin B8 (Biotin) BIOS 3 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF ♠ 2 days 144 Vitamin B12 (Active) B12 1 1 1 1 1 1 1 1 1 1	Viral Eye by PCR	VPE	PCR	3 days	97-98
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Vitamin A (Retinol) VITA ③ 5 days 144 Vitamin B (Functional) FUNC ③ ④ O ⑥ 133 5 days 144 Vitamin B Profile VBP ③ ⑥ 5 days 143-144 Vitamin B1 (Thiamine) VIT1 ⑥ 5 days 144 Vitamin B2 (Riboflavin) VIB2 ⑥ 5 days 144 Vitamin B3 (Nicotinamide) VIB3 ⑥ 5 days 144 Vitamin B5 (Pantothenic Acid) VB5S ⑥ 5 days 144 Vitamin B6 (Pyridoxine) VITB ⑥ 5 days 144 Vitamin B8 (Biotin) BIOS ⑥ 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF ⑥ 2 days 144 Vitamin B9 (Folic acid) – Serum FOLA ⑥ 1 day 144 Vitamin B12 (Active) B12 ⑥ 1 day 33, 144 Vitamin B12 (Active) B12 ⑥ 1 day 33 Vitamin B12 (Total) <th>Viral Skin/Mucosa by PCR</th> <th>VPSK</th> <th>PCR</th> <th>2 days</th> <th>97-98</th>	Viral Skin/Mucosa by PCR	VPSK	PCR	2 days	97-98
Vitamin B (Functional) FUNC ⚠ ♠ or ♠ ¹³ 5 days 144 Vitamin B Profile VBP ♠ ♠ ¹³ 5 days 143-144 Vitamin B1 (Thiamine) VIT1 ♠ 5 days 144 Vitamin B2 (Riboflavin) VIB2 ♠ 5 days 144 Vitamin B3 (Nicotinamide) VIB3 • 5 days 144 Vitamin B5 (Pantothenic Acid) VB5S • 5 days 144 Vitamin B6 (Pyridoxine) VITB ♠ 5 days 144 Vitamin B8 (Biotin) BIOS • 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF ♠ 2 days 144 Vitamin B9 (Folic acid) – Serum FOLA • 1 day 144 Vitamin B12 (Active) B12 • 1 day 33, 144 Vitamin B12 (Active) B12 • 1 day 33, 144 Vitamin B12 (Total) TB12 • 1 day 33 Vitamin B12 (Total) TB12 • 1 day 33 Vitamin D (1, 25 Dihydroxy) D3 • 5 days 145 Vitamin D (25-OH) <th< th=""><th>Viscosity (Plasma)</th><th>VISC</th><th>A⁴</th><th>3 days</th><th>37</th></th<>	Viscosity (Plasma)	VISC	A ⁴	3 days	37
Vitamin B Profile VBP ▲ ♠ ♠ 5 days 143-144 Vitamin B1 (Thiamine) VIT1 ♠ 5 days 144 Vitamin B2 (Riboflavin) VIB2 ♠ 5 days 144 Vitamin B3 (Nicotinamide) VIB3 ⊕ 5 days 144 Vitamin B5 (Pantothenic Acid) VBSS ⊕ 5 days 144 Vitamin B6 (Pyridoxine) VITB ♠ 5 days 144 Vitamin B8 (Biotin) BIOS ⊕ 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF ♠ 2 days 144 Vitamin B9 (Folic acid) – Serum FOLA ⊕ 1 day 144 Vitamin B12 (Active) B12 ⊕ 1 day 33, 144 Vitamin B12 (Active) B12 ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕ ⊕	Vitamin A (Retinol)	VITA	В	5 days	144
Vitamin B1 (Thiamine) VIT1 ♠ 5 days 144 Vitamin B2 (Riboflavin) VIB2 ♠ 5 days 144 Vitamin B3 (Nicotinamide) VIB3 ② 5 days 144 Vitamin B5 (Pantothenic Acid) VB5S ③ 5 days 144 Vitamin B6 (Pyridoxine) VITB ♠ 5 days 144 Vitamin B8 (Biotin) BIOS ③ 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF ♠ 2 days 144 Vitamin B9 (Folic acid) – Serum FOLA ④ 1 day 144 Vitamin B12 (Active) B12 ④ 1 day 33,144 Vitamin B12 (Active)/ Red Cell Folate B12F ♠ ⑥ 2 days 33,144 Vitamin B12 (Total) TB12 ⑤ 1 day 33 Vitamin C (Active) VITC ⑤ (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 ⑤ 5 days 145 Vitamin E (Alpha Tocopherol) VITE <th< th=""><td>Vitamin B (Functional)</td><td>FUNC</td><td></td><td>5 days</td><td>144</td></th<>	Vitamin B (Functional)	FUNC		5 days	144
Vitamin B2 (Riboflavin) VIB2 ∆ 5 days 144 Vitamin B3 (Nicotinamide) VIB3 ⋮ 5 days 144 Vitamin B5 (Pantothenic Acid) VB5S ⋮ 5 days 144 Vitamin B6 (Pyridoxine) VITB ∆ 5 days 144 Vitamin B8 (Biotin) BIOS ⋮ 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF ∆ 2 days 144 Vitamin B9 (Folic acid) – Serum FOLA ⋮ 1 day 144 Vitamin B12 (Active) B12 ⋮ 1 day 33,144 Vitamin B12 (Active)/ Red Cell Folate B12F Љ ⋮ 2 days 33,144 Vitamin B12 (Total) TB12 ⋮ 1 day 33 Vitamin C (Active) VITC ⑤ (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 ⋮ 5 days 145 Vitamin D (25-OH) VITD ⋮ 5 days 145 Vitamin K (Nutritional) VKN ⋮ 13	Vitamin B Profile	VBP	AAB	5 days	143-144
Vitamin B3 (Nicotinamide) VIB3 ③ 5 days 144 Vitamin B5 (Pantothenic Acid) VB5S ③ 5 days 144 Vitamin B6 (Pyridoxine) VITB △ 5 days 144 Vitamin B8 (Biotin) BIOS ⑤ 5 days 144 Vitamin B9 (Folic acid) − Red cell RBCF △ 2 days 144 Vitamin B9 (Folic acid) − Serum FOLA ⑥ 1 day 144 Vitamin B12 (Active) B12 ⑥ 1 day 33,144 Vitamin B12 (Active)/ Red Cell Folate B12F ⑥ ② 2 days 33,144 Vitamin B12 (Total) TB12 ⑥ 1 day 33 Vitamin C (Active) VITC ⑥ (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 ⑥ 5-8 days 145 Vitamin E (Alpha Tocopherol) VITE ⑥ 5 days 145 Vitamin K (Nutritional) VKN ⑥ 13 5 days 145	Vitamin B1 (Thiamine)	VIT1		5 days	144
Vitamin B5 (Pantothenic Acid) VB5S 3 5 days 144 Vitamin B6 (Pyridoxine) VITB △ 5 days 144 Vitamin B8 (Biotin) BIOS 3 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF △ 2 days 144 Vitamin B9 (Folic acid) – Serum FOLA 3 1 day 144 Vitamin B12 (Active) B12 3 1 day 33,144 Vitamin B12 (Active)/ Red Cell Folate B12F △ 3 2 days 33,144 Vitamin B12 (Total) TB12 3 1 day 33 Vitamin C (Active) VITC 3 (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 5 -8 days 145 Vitamin D (25-OH) VITD 3 4 hours 33,145 Vitamin K (Nutritional) VKN 3 (13) 5 days 145	Vitamin B2 (Riboflavin)	VIB2	A	5 days	144
Vitamin B6 (Pyridoxine) VITB ∆ 5 days 144 Vitamin B8 (Biotin) BIOS 3 5 days 144 Vitamin B9 (Folic acid) – Red cell RBCF ∆ 2 days 144 Vitamin B9 (Folic acid) – Serum FOLA 3 1 day 144 Vitamin B12 (Active) B12 3 1 day 33, 144 Vitamin B12 (Active)/ Red Cell Folate B12F ∆ 3 2 days 33, 144 Vitamin B12 (Total) TB12 3 1 day 33 Vitamin C (Active) VITC 3 (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 3 5-8 days 145 Vitamin D (25-OH) VITD 3 4 hours 33, 145 Vitamin E (Alpha Tocopherol) VITE 3 5 days 145 Vitamin K (Nutritional) VKN 3 5 days 145	Vitamin B3 (Nicotinamide)	VIB3	B	5 days	144
Vitamin B8 (Biotin) BIOS 3 5 days 144 Vitamin B9 (Folic acid) − Red cell RBCF A 2 days 144 Vitamin B9 (Folic acid) − Serum FOLA G 1 day 144 Vitamin B12 (Active) B12 G 1 day 33, 144 Vitamin B12 (Active)/ Red Cell Folate B12F A G 2 days 33, 144 Vitamin B12 (Total) TB12 G 1 day 33 Vitamin C (Active) VITC G (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 G 5-8 days 145 Vitamin D (25-OH) VITD G 4 hours 33, 145 Vitamin E (Alpha Tocopherol) VITE G 5 days 145 Vitamin K (Nutritional) VKN G 13 5 days 145	Vitamin B5 (Pantothenic Acid)	VB5S	B	5 days	144
Vitamin B9 (Folic acid) − Red cell RBCF ♠ 2 days 144 Vitamin B9 (Folic acid) − Serum FOLA ♣ 1 day 144 Vitamin B12 (Active) B12 ♣ ♠ 2 days 33,144 Vitamin B12 (Active)/ Red Cell Folate B12F ♠ ♠ 2 days 33,144 Vitamin B12 (Total) TB12 ♣ 1 day 33 Vitamin C (Active) VITC ♠ (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 ♠ 5 -8 days 145 Vitamin D (25-OH) VITD ♠ 4 hours 33,145 Vitamin E (Alpha Tocopherol) VITE ♠ 5 days 145 Vitamin K (Nutritional) VKN ♠ 13 5 days 145	Vitamin B6 (Pyridoxine)	VITB	A	5 days	144
Vitamin B9 (Folic acid) - Serum FOLA ③ 1 day 144 Vitamin B12 (Active) B12 ③ 1 day 33, 144 Vitamin B12 (Active)/ Red Cell Folate B12F ④ ③ 2 days 33, 144 Vitamin B12 (Total) TB12 ⑤ 1 day 33 Vitamin C (Active) VITC ⑤ (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 ⑥ 5 -8 days 145 Vitamin D (25-0H) VITD ⑥ 4 hours 33, 145 Vitamin E (Alpha Tocopherol) VITE ⑥ 5 days 145 Vitamin K (Nutritional) VKN ⑥ 13 5 days 145	Vitamin B8 (Biotin)	BIOS	B	5 days	144
Vitamin B12 (Active) B12 3 1 day 33, 144 Vitamin B12 (Active)/Red Cell Folate B12F 3 2 days 33, 144 Vitamin B12 (Total) TB12 3 1 day 33 Vitamin C (Active) VITC 3 (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 3 5-8 days 145 Vitamin D (25-0H) VITD 3 4 hours 33, 145 Vitamin E (Alpha Tocopherol) VITE 5 days 145 Vitamin K (Nutritional) VKN 3 (13) 5 days 145	Vitamin B9 (Folic acid) – Red cell	RBCF	A	2 days	144
Vitamin B12 (Active)/ Red Cell Folate B12F ② ⑤ 2 days 33, 144 Vitamin B12 (Total) TB12 ③ 1 day 33 Vitamin C (Active) VITC ⑤ (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 ⑥ 5 -8 days 145 Vitamin D (25-0H) VITD ⑥ 4 hours 33,145 Vitamin E (Alpha Tocopherol) VITE ⑥ 5 days 145 Vitamin K (Nutritional) VKN ⑥ 13 5 days 145	Vitamin B9 (Folic acid) – Serum	FOLA	3	1 day	144
Vitamin B12 (Total) TB12 3 1 day 33 Vitamin C (Active) VITC 3 (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 3 5-8 days 145 Vitamin D (25-0H) VITD 3 4 hours 33,145 Vitamin E (Alpha Tocopherol) VITE 5 days 145 Vitamin K (Nutritional) VKN 3 5 days 145	Vitamin B12 (Active)	B12	3	1 day	33, 144
Vitamin C (Active) VITC ③ (Frozen) ⁷ 5 days 145 Vitamin D (1, 25 Dihydroxy) D3 ③ 5-8 days 145 Vitamin D (25-OH) VITD ③ 4 hours 33,145 Vitamin E (Alpha Tocopherol) VITE ⑤ 5 days 145 Vitamin K (Nutritional) VKN ⑥ 13 5 days 145	Vitamin B12 (Active)/Red Cell Folate	B12F	AB	2 days	33, 144
Vitamin D (1, 25 Dihydroxy) D3 G 5-8 days 145 Vitamin D (25-0H) VITD G 4 hours 33, 145 Vitamin E (Alpha Tocopherol) VITE G 5 days 145 Vitamin K (Nutritional) VKN G 13 5 days 145	Vitamin B12 (Total)	TB12	3	1 day	33
Vitamin D (25-0H) VITD 3 4 hours 33,145 Vitamin E (Alpha Tocopherol) VITE 3 5 days 145 Vitamin K (Nutritional) VKN 3 5 days 145	Vitamin C (Active)	VITC	(Frozen) ⁷	5 days	145
Vitamin E (Alpha Tocopherol) VITE 3 days 145 Vitamin K (Nutritional) VKN 3 s days 145	Vitamin D (1, 25 Dihydroxy)	D3	B	5-8 days	145
Vitamin K (Nutritional) VKN 13 5 days 145	Vitamin D (25-OH)	VITD	B	4 hours	33, 145
Vitamin K (Nutritional) VKN 13 5 days 145	Vitamin E (Alpha Tocopherol)	VITE	B	5 days	145
Vitamin K (With PIVKA II) VITK B 13 10 days 36		VKN	B 13	5 days	145
	Vitamin K (With PIVKA II)	VITK	B 13	10 days	36

TEST	CODE	SAMPLE REQS	TAT	PAGE
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VMA	UVMA	PU ¹	5 days	33
Voltage Gated Calcium Channel Antibodies	CCAB	3	3 weeks	81
Voltage Gated Potassium Channel Antibodies	VPCA	3	3 weeks	81
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Walnut Components	ZZ34	3	2 days	141
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Wheat Components	ZZ21	3	2 days	141
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Whooping Cough (Pertussis) by PCR	PERP	Prenasal (posterior nasopharynx) swab	5 days	81
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- BOBs (5 days) + karyotype (15 days)	KARY			
Wolf-Hirschhorn Syndrome – BOBs only	PB0B	CVS/AF/(A) 9	5 days	121
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Xylene – Urine	UXYL	RU ³⁰	2 weeks	156
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Zinc (Whole Blood)	RBCZ	(A) or (1)	5 days	144
Zinc Protoporphyrin	ZNPR	A 13	5 days	156
Zygosity testing - comparative DNA profile	DNAC	(From each twin and both parents) 9	5 days	121

TDL Referral Laboratories

For certain specialist tests TDL has developed a selected network of TDL Group and Reference Laboratories. These Group or specialist laboratories can be identified by a code assigned to reports. The quality of these laboratories is recognised by UKAS, or similar accrediting bodies for the laboratories outside the UK.

Addenbrooke's Hospital - BGU and Immunology

Affinity Biomarker Labs

Alder Hey Children's NHS Foundation Trust – Biochemistry Department

Analytical Services International Ltd, St George's University of London – Forensic Toxicology Service

Animal and Plant Health Agency - Veterinary labs

Antenatal Screening Service, Wolfson Institute of Preventive Medicine, Barts and The London School of Medicine and Dentistry

Bio Predictive

Biodesix, Inc.

Biolab Medical Unit

Rioscientia

Birmingham Children's Hospital NHS Foundation Trust – Clinical Chemistry

Brucella Reference Unit – Liverpool Clinical Laboratories, Royal Liverpool and Broadgreen Hospital

Cambridge Clinical Laboratory

Cambridge Life Sciences

Cambridge Nutritional Science Ltd

Cardiff and Vale University Health Board – The Analytical Toxicology Department

Cerba

Chelsea and Westminister Hospital NHS Foundation Trust

CNC Forensic Toxicology Service LTD

Douglass Hanly Moir Pathology

Epsom and St Helier University Hospital NHS Trust – Biochemistry Department

Epsom and St Helier University Hospital NHS Trust – Immunology Department

Eurofins - Biomnis, France

Great Ormond Street Hospital – Department of Chemical Pathology

Great Ormond Street Hospital – Enzyme Unit, Chemical Pathology

Great Ormond Street Hospital - Immunology Department

Great Ormond Street Hospital - Neurometabolic Unit

Guildford RSCH Trace Element Laboratory, SAS Trace Element Centre

HCA Healthcare UK - HCA Laboratories

Health & Safety Laboratory

HFL Sport Science (LGC Group)

Homerton University Hospital – Department of Clinical Biochemistry

Igenomix UK

Imperial College Healthcare NHS Trust – Charing Cross Hospital, Chemical Pathology Department

Imperial College Healthcare NHS Trust –
Charing Cross Hospital, Infection and Immunity Department

Imperial College Healthcare NHS Trust –
Charing Cross Hospital, Medical Oncology

Imperial College Healthcare NHS Trust – Hammersmith Hospital, Molecular Endocrinology

Imperial College Healthcare NHS Trust, St Mary's Hospital – Virology Department

Independent Histopathology Services

Institute of Aquaculture – University of Stirling Institute of Neurology – Neurogenetics Unit

Instituto Bernabeu Biotech

King's College Hospital – HMDC Laboratory for Molecular Haemato-Oncology

Labor Augsburg MVZ GmbH

Latis Scientific

London School of Hygiene & Tropical Medicine – Diagnostic Parasitology Lab

Matrix Diagnostics

Mayo Clinic Laboratories

Meningococcal reference unit (Men RU)

Manchester – Manchester Royal Infirmary

Micropathology Ltd

National Blood Service – Colindale, Red Cell Immuno Haematology Department

NHS Blood and Transplant - Birmingham

NHS Blood and Transplant - H & I Laboratory

NHS Blood and Transplant - Tooting

Norfolk and Norwich University Hospital NHS Foundation Trust – SAS Metabolic Bone LaboratoryOxford University Hospital NHS Foundation Trust – Churchill Hospital

Pathcare

TDL Referral Laboratories

PHE - Bacteriology Reference Department (BRD), Colindale

PHE - Virus Reference Department (VRD) - Colindale

PHE Mycology Reference Laboratory –
PHE South West Laboratory, Southmead Hospital, Bristol

PHE National Mycobacterium Reference Service National Infection Service, Colindale

PHE Rare and imported pathogens laboratory – Porton Down

Queens University Hospital, Belfast – Institute of Clinical Science

Radboud University Nijmegen Medical Center

Randox Health - London

Reflab – Copenhagen

Rosalind Franklin University

Royal Berkshire Hospital NHS Foundation Trust – Clinical Biochemistry

Royal Surrey County Hospital - SAS Peptide Hormone Section

Sandwell and West Birmingham NHS Trust – City Hospital Birmingham, Clinical Biochemistry Department

SCSA Diagnostics

Sheffield Children's NHS Trust – Clinical Chemistry

Sheffield Teaching Hospital NSH Foundation Trust – Protein Reference Laboratory Unit and Immunology Department

Southmead Hospital – Antimicrobial Reference Laboratory, Bristol

St George's University Hospital NHS Foundation Trust – Cell Marker Department

SYNLAB Budapest Diagnostic Center, Genoid Molecular Diagnostic Laboratory

SYNLAB Laboratory Service – Abergavenny

The European Laboratory of Nutrients

The Leeds Teaching Hospital NHS Trust –
Endocrinology Laboratory (including SAS Steroid Centre),
Department of Specialist Laboratory Medicine,
ST James University Hospital

The Leeds Teaching Hospitals NHS Trust – Mycology Reference Centre

The Newcastle upon Tyne Hospitals – Royal Victoria Infirmary

The Royal Marsden Hospital

Department of Haematology / Oncology

Toxoplasma Reference Unit, Public Health Wales Microbiology ABM, Singleton Hospital – Swansea

Trace Laboratories Ltd

UCL Great Ormond Street Institute of Child Health

UCL Queen Square Institute of Neurology – Department of Neuroimmunology University Hospital Birmingham NHS Foundation Trust – Heartlands Hospital

University Hospital of Wales - Immunology Department

Viapath - Guy's Hospital, Biochemistry Genetics Laboratory

Viapath – King's College Hospital, Clinical Biochemistry

Viapath - St Thomas' Hospital Haemophilia Centre

Viapath - St Thomas' Hospital Immunohistology

Viapath - St Thomas' Hospital Purine Research Laboratory

GROUP LABORATORIES

Royal Free London NHS Foundation Trust - Haemostasis

University College London Hospitals NHS Foundation Trust (UCLH) – Cytology

University College London Hospitals NHS Foundation Trust (UCLH) – Hospital for Tropical disease

University College London Hospitals NHS Foundation Trust (UCLH) – Molecular Virology

University College London Hospitals NHS Foundation Trust (UCLH) – Special Chemistry

TDL Genetics Referral Laboratories

All Wales Medical Genetics Service

Anthony Nolan, Histocompatability and Immunogenetics

Asper Biotech

Bioscientia GmBH

Bristol Genetics Laboratory (North Bristol NHS Trust)

CentoGene

DiaGenom GmbH

Douglass Hanly Moir Pathology

East Scotland Regional Genetics Service (NHS Tayside)

Exeter Clinical Laboratory -

Department of Molecular Genetics

Fulgent Diagnostics

Institute of Neurology, Queen's Square

International Blood Group Reference Laboratory

London South East Genetics Service

Medical Genetics Laboratory – Central Manchester University Hospitals NHS Foundation Trust

Medical Neurogenetics Laboratory LLC

Micropathology Ltd

Molecular Genetics Laboratory – Liverpool's Women NHS Foundation Trust

Molecular Vision Laboratory

Newcastle Mitochondrial NGC Diagnostic Service

North East Thames Regional Genetic Service

North West London Pathology

North West Thames Regional Genetic Service

Northern Genetics Service

Oxford Genetics Laboratory – Oxford University Hospitals

Prevention Genetics

Progenika Biopharma Grifols

Protein Reference Unit & Immunology Department – Sheffield Protein Unit

Purine Research Laboratory - St Thomas' Hospital

Royal Marsden - Haemato-Oncology Unit

Sheffield Diagnostic Genetics Service

SIHMDS – Cytogenetics Laboratory, Great Ormond Street Hospital

South East Scotland Genetics Service (NHS Lothian)

South West Thames Regional Genetics Service

SYNLAB Budapest Diag Center

The Leeds Genetics Laboratory

Viapath Analytics LLP

Wessex Region Genetics Service

West Midlands Regional Genetics Laboratory

West of Scotland Genetic Service (NHS Greater Glasgow and Clyde)

Terms & conditions of business from 1st Jan 2021

The definitions which apply to these Terms and Conditions are set out in clause 18.

1 THE SERVICES

- 1.1 These Terms and Conditions will apply to any services that TDL provides to the Client, unless those services are the subject of a separate written agreement signed by TDL and the Client. These Terms and Conditions apply to the exclusion of any other terms presented by the Client or implied by custom or course of dealing.
- 1.2 By submitting a request for any services described in the Laboratory Guide or in any other proposal provided by TDL (an 'Order'), the Client offers to purchase those services on these Terms and Conditions. A contract between TDL and the Client for the provision of services incorporating these Terms and Conditions (an 'Agreement') takes effect when TDL confirms acceptance of the Client's Order in writing, logs the relevant Pathology Request in its laboratory information management system, or begins performing the Services (whichever occurs first). Any request for add-on Tests (as described in the Laboratory Guide) constitutes a request for further Services under that Agreement, which TDL may accept or decline.
- 1.3 TDL will provide the Services under the Agreement:
- 1.3.1 in accordance with Good Industry Practice;
- 1.3.2 in accordance with the UKAS medical laboratory accreditation standard (ISO 15189); and
- 1.3.3 using suitably skilled and experienced staff.
- 1.4 TDL will use reasonable efforts to achieve the Test turn-around times quoted in the Laboratory Guide, but does not warrant that it will achieve those times in the case of any particular Sample.
- 1.5 The Laboratory Guide sets out Sample rejection criteria. If the Sample meets those criteria, or if TDL considers that the Sample is otherwise unsuitable for Testing or TDL is unable to conduct the Testing then TDL may decline to carry out the Testing under the Agreement and will be entitled to dispose of the Sample.
- 1.6 As part of its Services TDL will, on request, arrange for collection of Samples from locations within the M25 motorway. Such collection service is included within the price of the Test unless otherwise specified by TDL. Collection of Samples from locations outside the M25 is by special arrangement, and may incur an additional charge. Where collection by TDL has not been requested and agreed, the Client will be responsible, at its own cost, for the transport of Samples to TDL. Where TDL arranges collection of Samples it will use reasonable efforts to achieve the timescales it quotes for collection, but does not warrant that it will achieve those timescales in the case of any particular collection.

1.7 TDL may destroy or dispose of a Sample after completing the Testing or on termination of the Agreement, unless otherwise agreed in writing with the Client

2 PRICE AND PAYMENT TERMS

- 2.1 The fees payable by the Client for the Services will be the most recent price confirmed by TDL to the Client in writing or by telephone prior to the Client submitting its Order. If TDL has not confirmed the price for the Services, the price will be that indicated in the Laboratory Guide.
- 2.2 As at the date of these Terms and Conditions many of TDL's services are VAT exempt. All of TDL's prices are stated exclusive of VAT and where VAT is chargeable on the Services the Client will pay it at the applicable rate.
- 2.3 Invoices are normally issued on a monthly basis, but TDL reserves the right to issue them more frequently. The client will pay TDL's invoices under the Agreement within 30 days of the date of the invoice, without any deduction or set off. At TDL's option interest may be charged on late payment at the statutory rate prescribed from time to time by regulations under the Late Payments of Commercial Debts (Interest) Act 1998. Invoices paid from outside the UK must be paid by either direct bank transfer or by cheque drawn on a UK branch. All payments will be made in pounds sterling.
- 2.4 Without affecting any of its other rights, TDL may suspend provision of the Services if the Client fails to pay an invoice due to TDL.

3 CONFIDENTIALITY

- 3.1 TDL agrees that it will hold and maintain the confidence of:
- 3.1.1 all information of a confidential nature which is received by TDL from the Client or its patients in connection with the Services; and
- 3.1.2 all Test results, invoices and other information of a confidential nature issued by TDL to the Client or its patients in connection with the Services, and, save with the Client's consent or as otherwise permitted under this Agreement, will not disclose such information other than to its professional staff, independent consultants and/or persons to whom it has delegated the performance of the Services and who require the information for such purpose. Where TDL has been provided with the details of a patient's private medical insurance in connection with the Services, TDL will be entitled to assume (and the Client so warrants) that both the Client and the patient consent to the disclosure of information relating to that patient to the insurer concerned.

Terms & conditions of business from 1st Jan 2021

3.2 The restrictions in clause 3.1 will not apply to information which: (i) was in TDL's possession prior to disclosure by the Client; or (ii) is now or hereafter comes into the public domain other than by default of TDL; or (iii) was lawfully received by TDL from a third party acting in good faith having a right of further disclosure; or (iv) is required by law to be disclosed by TDL; or (v) which is required by a regulatory or accreditation body to be disclosed to it for the purpose of regulating or accrediting the TDL Group.

4 CLIENT RESPONSIBILITIES

- 4.1 Except where TDL obtains the Sample directly from the patient during a home visit or at TDL's patient reception facility, the Client will ensure that the Sample is obtained from the patient, packaged, and labelled in accordance with Applicable Law and good clinical practice.
- 4.2 Except where TDL agrees to arrange transport of the Sample to TDL's laboratory, the Client will ensure that the Sample is transported to TDL's laboratory in accordance with Applicable Law and good clinical practice.
- 4.3 The Client will ensure that all necessary consents and permissions are obtained and all necessary information provided to the patient, which is required under Applicable Law or good clinical practice in order to permit the Testing, the performance of and any other Services, and the use of the Protected Data as contemplated in the Agreement.
- 4.4 The Client will provide TDL with any information reasonably necessary for performing the Services, including by ensuring that the Pathology Request contains sufficient information regarding the Sample, the relevant patient, and the persons to whom the Test results are to be reported, and will ensure that any information the Client provides to TDL in connection with the Services is accurate and complete.

5 LIABILITY

- 5.1 Nothing in the Agreement will limit or exclude liability for death or personal injury caused by negligence or any other liability that cannot be limited or excluded under Applicable Law.
- 5.2 In these Terms and Conditions 'liability' means any liability whether in contract, tort (including negligence), misrepresentation, breach of statutory duty or otherwise, which arises in connection with the Services or under or in connection with any Agreement.
- 5.3 The liability of TDL and the Client will each be limited to £2,000,000 in total. This limit applies per Agreement and in aggregate for all Agreements made in a calendar year.

- 5.4 Neither TDL nor the Client will have any liability for:
- 5.4.1 loss of profit or revenue;
- 5.4.2 loss of anticipated savings;
- 5.4.3 loss of reputation or goodwill; or
- 5.4.4 indirect, special or consequential loss.
- 5.5 TDL will have no liability for any delay or failure in performance of the Services arising from the Client's delay or failure in performing its obligations under clause 4 (Client Responsibilities).
- 5.6 All of the warranties which TDL gives in relation to the Services are expressly set out in these Terms and Conditions. All other warranties, whether implied or express, are excluded from the Agreement where it is lawful to exclude them.
- 5.7 In this clause 5 references to TDL include the members of TDL's Group, and for the purpose of the limit in clause 5.3 the liabilities of TDL and the TDL Group Members will be counted in aggregate. The members of TDL's Group may enforce this clause 5.

6 FORCE MAJEURE

If the performance of any obligation under the Agreement (except for an obligation to pay) is prevented, restricted or interfered with by reason of circumstances beyond the reasonable control of that party obliged to perform it (a 'Force Majeure Event'), the party so affected will be excused from any resulting failure or delay in performance, and the time for performance will be extended by an amount of time equal to the duration of the Force Majeure Event. The party so affected will use reasonable endeavours to mitigate the effect of the Force Majeure Event on its performance of its obligations. If the Force Majeure Event delays or prevents performance of a party's obligations for more than three months, either party may terminate the agreement on written notice to the other.

7 DATA PROCESSOR AND DATA CONTROLLER

- 7.1 When TDL processes Protected Data on behalf of the Client in providing the Services the parties agree that the Client will be the data controller and TDL will be the data processor. The Annex to these Terms and Conditions sets out when TDL processes Protected Data on behalf of the Client. Clause 16 describes the circumstances where TDL will use Protected Data on its own behalf as data controller.
- 7.2 When TDL processes Protected Data as the data processor, clauses 8 to 15 will apply in relation to the Protected Data. Where TDL processes Protected Data as data controller, clause 16 will apply instead.

7.3 The Client will comply with the Data Protection Laws in relation to the Protected Data, and ensure that all instructions given by it to TDL in respect of Protected Data will at all times be in accordance with Data Protection Laws.

8 DATA PROCESSING INSTRUCTIONS

- 8.1 When TDL processes Protected Data as the data processor, TDL will comply with the obligations of data processors under Data Protection Laws.
- 8.2 Unless required to do otherwise by Applicable Law, TDL will (and will take steps to ensure each person acting under its authority will) process the Protected Data only in accordance with the Client's documented instructions as set out in the Order, pursuant to the Terms & Conditions, and in the Annex (the 'Processing Instructions').
- 8.3 If Applicable Law requires TDL to process Protected Data other than in accordance with the Processing Instructions, TDL will notify the Client of any such requirement before processing the Protected Data (unless Applicable Law prohibits TDL from doing so).
- 8.4 TDL will promptly inform the Client if TDL becomes aware of a Processing Instruction that, in TDL's opinion, infringes Data Protection Laws. TDL will have no liability for any processing in accordance with those Processing Instructions after giving the notice. TDL's obligations under this clause 8.4 do not limit the Client's obligations under clause 7.3.

9 DATA SECURITY MEASURES

In relation to the processing of the Protected Data, TDL will implement and maintain, at its cost and expense, appropriate technical and organisational measures to ensure for the Protected Data a level of security appropriate to the risks presented by the processing, taking into account the state of the art, the cost of implementation and the nature, scope, context and purpose of the processing of the Protected Data as well as the risk of varying likelihood and severity of the rights and freedoms of natural persons.

10 USING STAFF AND OTHER PROCESSORS

- 10.1 TDL will not engage any data processor to process the Protected Data on the Client's behalf (a 'Sub-Processor') without the Client's authorisation of that specific Sub-Processor. The Client will not unreasonably withhold, condition or delay such consent. By accepting these Terms and Conditions the Client authorises the appointment of the Authorised Sub-Processors.
- 10.2 TDL will ensure that each Sub-Processor is appointed under a written contract containing materially the same obligations as clauses 8 to 15.

10.3 TDL will ensure that all persons authorised to process Protected Data are subject to a binding obligation to keep the Protected Data confidential (except where disclosure is required in accordance with Applicable Law, in which case TDL will, where practicable and not prohibited by Applicable Law, notify the Client of any such requirement before such disclosure).

11 ASSISTANCE WITH THE CLIENT'S COMPLIANCE AND DATA SUBJECT RIGHTS

- 11.1 Taking into account the nature of the processing, TDL will implement and maintain reasonable measures to assist the Client to respond to the Data Subject Requests relating to the Protected Data that TDL processes on the Client's behalf. TDL will refer such Data Subject Requests it receives to the Client promptly, and in any event within five Business Days of receipt of the request.
- 11.2 TDL will provide such assistance as the Client reasonably requires (taking into account the nature of processing and the information available to TDL) to the Client in ensuring compliance with the Client's obligations under Data Protection Laws with respect to: (i) security of processing, (ii) data protection impact assessments (as such term is defined in Data Protection Laws), (iii) prior consultation with the relevant regulator regarding high risk processing, (iv) and notifications to the regulator and/or communications to data subjects by the Client in response to any Personal Data Breach. The Client will pay TDL's charges for providing the assistance in this clause 11, such charges to be calculated on a time and materials basis at TDL's applicable daily or hourly rates in force from time to time.

12 INTERNATIONAL DATA TRANSFERS

The Client agrees that TDL may transfer Protected Data to countries outside the United Kingdom for the purpose of providing the Services, provided all transfers by TDL of Protected Data to such recipients are in accordance with such safeguards or other mechanism(s) for transfers of personal data as may be permitted under Data Protection Laws from time to time. The Client agrees that TDL may implement such safeguards by entering into standard data protection clauses authorised under the Data Protection Laws, which TDL may do as agent on behalf of the Client. The provisions of clauses 8 to 15 (inclusive) will constitute the Client's instructions with respect to transfers in accordance with clause 8.2.

13 RECORDS, INFORMATION AND AUDIT

- 13.1 TDL will maintain, in accordance with Data Protection Laws binding on TDL, written records of all categories of processing activities carried out on behalf of the Client.
- 13.2 TDL will, in accordance with Data Protection Laws, make available to the Client such information as is reasonably necessary to demonstrate TDL's compliance with its obligations as a data processor under these Terms and Conditions and the Data Protection Laws, and allow for and contribute to audits, including inspections, by the Client (or another auditor mandated by the Client) for this purpose, subject to the Client:
- 13.2.1 giving TDL reasonable prior notice of such information request, audit and/or inspection being required by the Client:
- 13.2.2 ensuring that all information obtained or generated by the Client or its auditor(s) in connection with such information requests, inspections and audits is kept strictly confidential (save for disclosure to the relevant regulator or as otherwise required by Applicable Law);
- 13.2.3 ensuring that such audit or inspection is undertaken during normal business hours, with minimal disruption to TDL's business, the Sub-Processors' business and the business of other customers of TDL.

14 BREACH NOTIFICATION

TDL will, without undue delay notify the Client of the Personal Data Breach involving the Protected Data, and provide the Client with details of the Personal Data Breach.

15 DELETION OR RETURN OF PROTECTED DATA AND COPIES

TDL will, at the Client's written request, either delete or return all of the Protected Data to the Client in such form as the Client reasonably requests within a reasonable time after the end of the provision of the relevant Services related to processing, and delete existing copies (unless storage of any data is required by Applicable Law and, if so, TDL will inform the Client of any such requirement). Where TDL will process that Protected Data as data controller under clause 16, TDL may retain the Protected Data.

16 PROTECTED DATA THAT TDL PROCESSES AS A DATA CONTROLLER

16.1 TDL may process Protected Data as data controller in the circumstances and for the purposes set out in TDL's Privacy Notice. In particular TDL may:

- 16.1.1 retain and submit Protected Data to a Health Authority in the United Kingdom for the purposes of a Public Health Programme operated by that Health Authority, or to regulator for the purpose of complying with regulatory obligations; and
- 16.1.2 retain and process Protected Data in its laboratory records in order to meet the requirements of the UKAS medical laboratory accreditation standard (ISO 15189) and implement the guidelines of the Royal College of Pathologists for the retention and storage of pathological records and specimens.
- 16.3 When TDL processes Protected Data to provide Harmony® Non-Invasive Prenatal Tests, TDL does so as a data controller.
- 16.4 When TDL processes personal data on its own behalf as data controller, it will do so in accordance with the obligations of data controllers under Data Protection Laws and with the applicable terms of the Agreement.

17 GENERAL

- 17.1 Dispute resolution
- 17.1.1 If any dispute arises relating to this Agreement or any breach or alleged breach of this Agreement, the parties will make a good faith effort to resolve such dispute without recourse to legal proceedings. If, notwithstanding such good faith efforts, the dispute is not resolved either party may submit the dispute to the jurisdiction of the English Courts.
- 17.1.2 Except to the extent clearly prevented by the area of dispute, the parties will continue to perform their respective obligations under this Agreement while such dispute is being resolved.
- 17.2 Variation
- 17.2.1 TDL may amend these Terms and Conditions by updating the Laboratory Guide and providing the Client with a copy of the update or publishing it on TDL's website. Such amendments will only apply to an Order submitted after the date of the update, and the Client will be deemed to accept those amendments by submitting an Order after that date.
- 17.2.2 Except as set out in clause 17.2.1, any amendments to this Agreement will not be effective unless in writing and signed by an authorised signatory on behalf of each of the parties. The terms of this Agreement may be varied by agreement of the parties but without the consent of any third party whether or not the rights of such third party are affected by such variation. The Client will not unreasonably withhold, delay or condition its agreement to any variation to this Agreement requested by TDL in order to ensure the Services and TDL (and each Sub-Processor) can comply with any change in Applicable Laws.

17.3 Rights and waiver

All rights granted to either of the parties will be cumulative and not exhaustive of any rights and remedies provided by law. The failure of either party to enforce (or delay in enforcing) at any time for any period any one or more of the terms of this Agreement will not be a waiver of such term or of the right of such party at any time subsequently to enforce all the terms of this Agreement.

17.4 Severability

If any provision of this Agreement is or becomes invalid, illegal or unenforceable in any respect under any law, the validity, legality and enforceability of the remaining provisions will not be in any way affected.

17.5 Assignment

TDL may assign or sub-contract the performance of this Agreement (in whole or in part) or any one or more of the Tests to be performed hereunder to suitably accredited laboratories including those listed in the Laboratory Guide. The Client may not assign this Agreement or any of its rights or obligations hereunder without the prior approval of TDL.

17.6 Relationship of the parties

It is acknowledged and agreed that TDL and the Client are independent contractors and nothing in this Agreement will create or be construed as creating a partnership or (except as provided in clause 12 and the Annex) a relationship of agent and principal between the parties. The Client acknowledges and agrees that, in requesting Services from TDL, it is not acting as agent for any patient or patients to which the Services relate.

17.7 Notices

All notices given under this Agreement will be in writing and will be delivered by hand or sent by prepaid first class post or by prepaid first class recorded delivery or by email transmission. All notices will be delivered at or sent, in the case of TDL, to The Halo Building, 1 Mabledon Place, London WC1H 9AX, email notices@tdlpathology.com and, in the case of the Client to the address and/or email address set out in the Order (or such other address as that party will notify in writing to the other for this purpose). A notice sent by post will be deemed to be served at 9.00 am on the second business day following the date of posting; a notice sent by email transmission will (provided the sender receives no error message indicating that delivery has been unsuccessful) be deemed to have been served at the time it is transmitted if transmitted within business hours (9.00 am to 6.00 pm) on a business day or, if transmitted outside such business hours on a business day or on a day which is not a business day as soon thereafter as such business hours commence.

17.8 Entire agreement

The Agreement is set out in the Order and these Terms and Conditions, which together set out the entire contract between the Client and TDL relating to their subject matter. In the event of a conflict between the Order and these Terms and Conditions, the Terms and Conditions will take priority. Each party acknowledges that it has not entered into the Agreement in reliance on, and will have no remedies in respect of, any representation or warranty that is not expressly set out in the Agreement except in the case of fraudulent misrepresentation.

17.9 Third parties

The Agreement is not intended to create any rights for, nor be enforceable by, any third party except as set out in clause 5.

17.10 Governing law

The Agreement and any dispute arising out of or in connection with it (including non-contractual disputes and claims) will be governed by and construed in accordance with English law and each of the parties submits to the exclusive jurisdiction of the English Courts.

18 INTERPRETATION

18.1 In these Terms and Conditions and the Annex:-

'Agreement' has the meaning given in clause 1.2;

'Annex' means the annex to the Terms and Conditions:

'Applicable Law' means the laws, regulations, judgments, binding on the relevant party, as amended from time to time:

'Authorised Sub-Processors' means:

- a) Health Service Laboratories LLP and any other member of the TDL Group which provides the applicable Test or Service;
- b) accredited specialist centres for onward referral of esoteric assays as identified in the TDL Laboratory Guide;
- c) persons who provide information technology services that TDL uses in the course of providing the Services.: and
- d) any Sub-Processor referred to in the Annex;

'Client' means the person or organisation requesting Services from TDL and for whom TDL has agreed to provide the Services;

'controller', 'data subject', 'personal data', 'process' and 'processor' have the meanings given to those terms in Data Protection Laws;

'Data Protection Laws' means the UK GDPR, the Data Protection Act 2018, and any other Applicable Law having effect in the United Kingdom concerning privacy or the use of personal data:

'data subject' and 'personal data' have the meaning given to those terms in Data Protection Laws;

'Data Subject Request' means a request made by a data subject to exercise any rights of data subjects under Data Protection Laws:

'Good Industry Practice' means the standard of skill and care reasonably to be expected from a professional provider of the Services;

'Group' in respect of any undertaking, means such undertaking and its group undertakings ('undertaking' and 'group undertaking' having the meanings given in the Companies Act 2006);

'Health Authority' means (i) a department of the UK government or of a devolved administration, (ii) an executive agency of such department, or (iii) a body exercising statutory functions in relation to public health in the UK or any part of the UK;

'Laboratory Guide' means TDL's Laboratory Guide current at the time the Client submits the Order, as supplied to the Client or, if not so supplied, available on request from TDL, including any updates or supplements issued by TDL;

'Order' has the meaning given in clause 1.2;

'Pathology Request' means an Order requesting Testing;

'Personal Data' has the meaning given to that term in Data Protection Laws;

'Personal Data Breach' means any breach of security leading to the accidental or unlawful destruction, loss, alteration, unauthorised disclosure of, or access to, any Protected Data;

'Privacy Notice' means TDL's detailed Privacy Notice available at tdlpathology.com;

'processing' has the meanings given to that term in Data Protection Laws (and related terms such as process have corresponding meanings);

'Processing Instructions' has the meaning given to that term in paragraph 8.2;

'Protected Data' means personal data provided to TDL by the Client or a third party on the instructions of the Client, or collected or generated by TDL in the course of the Services; 'Public Health Programme' means a programme administered by a Health Authority to monitor or analyse health data for the purpose of public health or for statistical, scientific or research purposes in the public interest;

'Sample' means a sample provided by the Client to TDL for Testing;

'Services' means the services to be provided under the Agreement;

'Sub-Processor' has the meaning given in clause 10.1;

'TDL' means The Doctors Laboratory Limited or such other member of the TDL Group as has agreed to provide the Services;

'TDL Group' means The Doctors Laboratory Limited and its Group and Health Service Laboratories LLP and its Group;

'Test' means a laboratory test to be carried out by TDL on a Sample, and 'Testing' means the process of conducting that Test and reporting the results;

'UKAS' means the United Kingdom Accreditation Service, or any successor to it.

- 18.2 References to the singular include the plural and vice versa.
- 18.3 Clause headings and paragraph headings are for ease of reference only and are not part of these Terms and Conditions for the purpose of construction.
- 18.4 References to paragraphs are to paragraphs of the Annex.
- 18.5 Words following the terms 'including', 'include', 'in particular', 'for example' or any similar expression shall be construed as illustrative and shall not limit the sense of the words, preceding those terms.
- 18.6 The Annex is incorporated into these Terms and Conditions.

ANNEX

1 Subject matter and nature of processing

- 1.1 TDL processes Protected Data as data processor on behalf of the Client:
- 1.1.1 in the case of Testing, when TDL receives a Pathology Request and Sample and processes the corresponding Protected Data to carry out the Test and report the Test results in accordance with the Client's documented instructions:
- 1.1.2 when TDL carries out the Client's 'fee to patient' instructions, as described below; and
- 1.1.3 in the case of any other Services, when TDL is required to process the Protected Data on the Client's behalf to fulfil the Client's instructions.
- 1.2 The subject matter and nature of TDL's processing of the Protected Data are:
- 1.1.1 pathology samples and test results for the purpose of providing clinical pathology services;
- 1.1.2 information about clinicians who order pathology tests, for the purposes of reporting the test results to the Client:
- 1.1.3 information about a patient's health insurance for the purposes of administering payment for the Services; and
- 1.1.4 billing information for a patient where the Client has asked TDL to direct TDL's invoice to the patient.

2 Duration of processing

The duration of the processing is the time necessary to carry out the Services.

3 Types of personal data

- 3.1 The Protected Data comprise the following types of personal data:
- 3.1.1 Name
- 3.1.2 Gender
- 3.1.3 Date of birth
- 3.1.4 Address
- 3.1.5 Identity numbers assigned by TDL or the Client
- 3.1.6 Types of pathology tests conducted
- 3.1.7 Results of pathology tests
- 3.1.8 Health insurance policy details
- 3.1.9 Billing information
- 3.1.10 The types of data referred to in the TDL Laboratory Guide

4 Categories of data subjects

The Protected Data concerns patients in respect of whom TDL conducts pathology tests, and clinicians who request pathology tests.

Reporting pathology test results

- 5.1 TDL will report Test results using the method selected by the Client from the range of options offered by TDL or, if no method is selected by the Client, using a method selected by TDL from that range of options.
- 5.2 TDL will report the Test results using the contact details supplied to TDL in the relevant section of the Pathology Request. The Client will be responsible for ensuring that those contact details are correct.
- 5.3 Where TDL supplies Test results electronically it will ensure that the results are supplied in the format selected by the Client (from the range of options offered by TDL) and are supplied to the address indicated when the Client selects electronic results reporting. The Client will be responsible for ensuring that the selected format is compatible with the Client's information systems and for making the results available to the users of those systems.

6 Fee to patient

Where the Client selects the 'fee to patient' option in a Pathology Request Form, the Client instructs TDL to seek payment from the patient of the fees owed by the Client in respect of that test. The Client confirms that the patient has agreed with the Client to pay those fees to TDL for the Client. The Client instructs TDL to recover the fees by invoicing the patient using the personal data provided by the Client. The Client instructs TDL on the Client's behalf to appoint debt collectors to recover the fees from the patient if the patient does not pay the invoice by the date payment falls due. The Client authorises TDL to appoint those debt collectors as Sub-Processors in accordance with clauses 8 to 15.



Telephone No. _____

Antenatal Screening Service for Down's, Edwards& Patau Syndromes and Open Neural Tube Defects

PATIENT DETAILS						
Surname:	Hospital No.:					
Forename:	Date of birth:					
NHS No.:	Post code:					
CLINICAL DETAILS (To be completed by Midwife or	Doctor)					
First day of Last Menstrual Period (LMP)	Does the patient have Insulin dependent diabetes? (no=0, yes=1)					
Vaginal bleed in the last 7 days? (no=0, yes=1) If yes please see overleaf	Is this an IVF pregnancy? (no=0, yes=1)					
Maternal weight (kgs)	If yes egg collection date:					
Height (cms)	embryo transfer date					
Previous Neural Tube Defect pregnancies (none=0, one=1, two or more=2)	If egg(s) donated enter the donor's DOB					
Previous Down's Syndrome pregnancies (none=0,	If unknown, enter donor age					
non-inherited=1, inherited translocation=2, type not known=3)	Does the patient smoke? (no=0, yes=1, given up during					
If the patient had a previous pregnancy with Down's syndrome how old was she at the time?	pregnancy=2, e-cigarettes=3, patches=4) If yes, number of cigarettes per day					
Previous other chromosomal pregnancy (no=0, yes=1).	Did the patient take a daily supplement containing Folic Acid?					
If yes, please specify abnormality and year diagnosed:	(no=0, before becoming pregnant=1, once she knew she was pregnant=2)					
Family origin: (Black Caribbean/African=1, White European=2	Has the patient had pre-eclampsia in a previous pregnancy? (no=0, yes=1)					
Indian/Pakistani/Bangladeshi/Sri Lankan=4, Chinese/Japanese/SE Asian=5, Other=6). If other, please specify:	If the patient has had an amniocentesis performed prior to this					
	test please see overleaf.					
ULTRASOUND SCAN						
Date of scan	FETUS 1 FETUS 2					
Hospital where scanned	Nuchal translucency (NT) (mm):					
Number of fetuses	Crown rump length (CRL) (mm):					
If twins are they monochorionic or dichorionic? (MC=1, DC=2)	Head circumference (HC) (mm):					
Name of Sonographer	Gestational age at time of scan weeks day					
Sonographer ID Code	EDD D MM YY					
Date of serum sample DD MM YY Time taken	Sample taken by					
	If no, please complete below:					
Date of DNA sample DD MM YY Time taken	Sample taken by					

___ Fax No. ____

Leukaemic studies request (Cytogenetics/Molecular Genetics)





Priority Code:
First Name:
Date of Birth: DD MM MYYYY
Gender: Male Female
Sample WBC (x10 ⁹ /l):
Sample Vol. (ml):
Time Received:
Amount Sample/Culture: Check:
Fax No.:
Treatment stage:
sion:
Omls Child: 2-5mls i-10ml Child: 2-5mls
Bone Marrow: 24hrs
Fee to be paid by Doctor/Clinic as above

Postcode _____ Contact telephone number __

Genetic Request



In order to provide an efficient service for Genetic Requests, please complete the following:

PATIENT DETAILS	REFERRING DOCTOR	
Surname:	Name:	
First Name:	Address:	
Date of Birth: Gender: M F		
Patient Number:		
Ethnic Origin:	Telephone:	
Gestation (if applicable): weeks	Fax:	
	1 a.v.	
TEST REQUEST		
Disease Name:		
Gene(s) to be Analysed:		
Test for: Diagnosis Carrier Screening Known Fam	lly Mutation	
Clinical Symptoms:		
Family History:		
Please state any Family Gene Mutation(s) if known:		
Please also provide copies of any relevant genetic or patholo		
INFORMED CONSENT		
PATIENT OR GUARDIAN		
Please cross-out where applicable:		
I consent /do not consent to be tested for the genetic test(s), which	h have been explained to me	
I consent /do not consent for the results of this test to be available		
I consent /do not consent for DNA from this sample to be stored	to accept in tooking outlot farmy members	
I consent /do not consent for DNA to be used anonymously for re	evant research	
Signed:	/ /	
DOCTOR/GENETIC COUNSELLOR		
I have explained the purpose of obtaining a blood or tissue sample	for genetic testing.	
Signed:	/ / /	
This consent form is for use with diagnostic testing. It is important family members. We strongly recommend genetic counselling for or inherited cancers. Please contact our Consultant if you have que	predictive testing in disorders such as Huntington's Disease	
Fee to be paid by Patient/Other. PLEASE PROVIDE ADDRESS DETAILS	Fee to be paid b	
Insurance Co. Membership No		
Patient address		
Postcode Contact telep	none number	

Supplies re-order form

E-mail:supplies@tdlpathology.com



Doctor/Practice:			ATE OF ORDER
Address:		L	
Requested by:		_	URGENT BY
VACUTAINER TUBES EDTA 4ml Lavender EDTA 10ml Lavender (For STDX) SST/Serum 5ml Gold Fluoride Ox./Glucose 4ml Grey Lithium Heparin 6ml Green No Additive Red 6ml Sod. Heparin 6ml Dark Blue Citrate 4.5ml Light Blue VACUTAINER NEEDLES 21g Green 21g Butterfly Green 22g Black 23g Butterfly Blue	No. Required [SWABS, GYNAE & NON-GYNAE C Speculum (10) S M L Thin Prep Vial + Thin Prep Brush Microbiology CULTURE Swabs BL ENT/Urethral CULTURE Swabs OF PCR Swabs (chlamydia, herpes, e PCR Swabs (chlamydia, herpes, e Histology Pots 60ml Virology Swabs GREEN Blood Culture Bottles OTHERS – PLEASE SPECIFY	No. Required [
VACUTAINER BARREL WHITE SYRINGES (20) 10ml	No. Required		
URINE/STOOL CONTAINERS Urine/Universal Container pots 30ml Urine/Universal Container pots 60ml 24 hour Urine Containers Stool Pot FOB Pot	No. Required [POSTAL PACKS (All postal packs are Royal Mail Track 24 return postal envelop	
REQUEST FORMS Singles Duplicates PERSONALISED BARCODED FORMS Singles Duplicates SAMPLE BAGS Clear Small Clear Large Red (Urgent) Large Sample Practice Packing Bag	No. Required [Haem/Bio (Lavender/Gold/Grey value) Single SST vacutainer 30ml MSU/DOA (Non Chain of Custor) COVID-19 Antibody (blood) kit for self-collection COVID-19 PCR swab kit DOA (with Chain of Custody) FOB pack to QFIT pack Group B Strep (GBS) kit HPV Swab kit for self-collection Stool (now brown not blue)	[]

PATIENT RECEPTION AT: THE DOCTORS LABORATORY	CLINICIAN						i d	SOURCE						
76 Wimpole Street, London W1G 9 Monday to Friday 7.00am – 7.00pm Saturday 7.00am – 1.00pm Main Tel: 020 7307 7373 Patient Reception Fax: 020 7307 73 Out of hours samples may be dropped at 76 Wimpole St	Doctor Address	Address					Additional copy of results to:							
SURNAME						DOB		/ /	/		Vhen com	nletina t	his for	m
FORENAME			TITLE			M/F				р	lease prov ue identifi	ide at le	ast thr	ee
Please Tick	Home Visit			Patient F	Ref/ID	No.								
(Biochemistry) DL1	PATIENT DETAILS	•	Ш											
(Biochemistry/HDL) DL1L	LMP:										PROF	ILES AI <i>Pl</i> ea	ND TE se spe	
(Haem/Bio) DL2	Last smear:	/												
(Haem/Bio/HDL) DL2L	Routine screen	MONTH YEA	AR											
(Haem/Bio (short)) DL3 (Haem/Bio (short)) DL4	Colposcopy	_	. 📮											
(Haem/Bio/HDL) DL4L	Previous HPV Previous abnor	-ve _ mal history (⊳l	+ve											
(Postal Haem/Bio) DL5		, (a												
(Postal Haem/Bio/HDL) DL5L														
Well Person Screen (DL2/T4/TSH/Ferritin) DL6	TESTS (PLEASE SPE	CIFY)												
Well Person Screen (DL2L/T4/TSH/Ferritin) DL6L	A HR-HPV testing	g will always be carr single test. HPV wi												
Well Man Screen (DL6/PSA/Ferritin) DL7		HPV mRNA ed as a single test a	and is Positive/											
Well Man Screen (DL6L/PSA/Ferritin) DL7L	Detected, cervica	al cytology (PAPT) w e vial without char	vill be carried											
Well Person Screen (DL6/VITD/Ferritin) DL8	If HP20 is reques	IPV DNA sub ted as a single test d, cervical cytology	and is											
Well Person Screen (DL6/HDL/VITD/Ferritin) DL8L	carried out from t	the same vial witho	ut charge.											
Senior Male Profile 60+ DL9M	☐ E6/E7 onco													
Senior Female Profile 60+ DL9F	Positive/Detected	d, cervical cytology m the same vial wit	(PAPT) will											
Cardiovascular Risk Evaluation Profile DL10	TPCR Thin Prep Chlamy	rdia TGOI	N ep Gonorrhoea									TAP364	3B/23-11	1-20/V8
Cardiovascular Risk Plus Profile DL11	TCG Thin Prep CT/GC			Clinical De		e)								
Sexual Health 7 STI screen by PCR DL12	7 STI (DL12 If M.gen is detected will be carried out	ed, macrolide resista	ance testing	Ethnic O	rigin (deta	ails, if relevant) ease specify)								
Fee to be paid by Patient/Other. PLEA	SE PROVIDE ADD	RESS DETA	ILS								be paid by			
Insurance Co		Membershi	p No											
Patient address											taken			
Postcode		Conta	act telephone	e number						•	taken			
For Practice Use Only:		oratory Use C	·			For Patier	nt Servi	ce's Use	Only:					
EDTA SST GREY MSU OTHERS	INITIALS EDTA	SST GREY	MSU	OTHERS I	NITIALS	TIME IN 1	TIME IN Ph	Ph	TAKEN BY		THI	D O R A	СТС	ORS RY

Vacutainer	Anticoagulant	Capacity	SAMPLE TYPES	
Lavender	EDTA	4ml/10ml*	A	
Gold	SST/Gel	5ml	В	
Light Blue	Citrate	4.5ml	•	
Red	None	(
Grey	Fluoride oxalate	6ml 2ml, 4ml	G	
Green	Lithium heparin	6ml		
	•	-	(1)	
Dark Blue	Sodium heparin	7ml	K	
	used for specific PCR assays e: contact laboratory		ВС	
	for advice on sample taking		J	
Test by appointmen			Х	
Random Faeces			RF	
Faecal Collection			LF	
Random Urine			RU	
Mid Stream Urine			MSU	
First Catch Randon	n Urine (for DL12/Chlamydia, et	tc.)	FCRU	
30ml aliquot from a	24 hour urine collection – stat	te total volume	CU	
•	24 hour urine collection with			
	Acid added - state total volume	Э	PU	
Early Morning Urine	e (1st sample of the day)		EMU	
60ml container (ste	rile)		SC	
Cytyc Thin Prep Via	al		TPV	
Orange/Blue swab for culture – swab in transport medium/Blue microswab				
Black Charcoal swa	ab		CS	
Green Viral swab			VS	
PCR swab for Chla	mydia/PCR Infection Screening	g	PCR	
Tap/bottled water n	nouth wash - 20mls		MW	
Ammotic fluid (5mls	s PCR – 10mls Karyotype)		AF	
Chorionic Villus (me	edium provided by laboratory)		CVS	
	ainer		UCYT	

The Doctors Laboratory The Halo Building, 1 Mabledon Place, London WC1H 9AX Tel: 020 7307 7373 Fax: 020 7307 7374 E-mail: tdl@tdlpathology.com Web: www.tdlpathology.com

