

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
17- Hydroxy-Pregnenolone (17-OH Pregnenolone)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)	• CIRCADIAN RHYTHM: This biological molecule has a circadian rhythm(maximum concentration in the morning), with a sufficiently significant amplitude to have an important influence on the clinical interpretation.	2 weeks
17-Alpha-OH-Progesterone (Serum) (17-Hydroxyprogesterone)	Biochemistry Laboratory, St James's Hospital	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	No storage requirements listed	Paediatric and adult ranges available	10 days
17-Alpha-OH-Progesterone <1 year old (17-Hydroxyprogesterone)	Biochemistry Laboratory, CHI, Crumlin, Dublin	<b>Serum</b> <b>Serum Paediatric tube - Ref 41.1378.005</b> (1.3ml)	Sample must be <b>frozen</b> immediately	Fresh specimen required. Must fill bottle to mark. Send immediately to Biochemistry Laboratory or Specimen Reception Mayo University Hospital. Pre-analytical preparation (freezing) required before referral.	
17-Alpha-OH-Progesterone >1 year old (Serum) (17-Hydroxyprogesterone)	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	Specify age, sex, phase of cycle. Fresh specimen required. Must fill bottle to mark. Send immediately to Biochemistry Laboratory or Specimen Reception Mayo University Hospital.	3 days
5-HIAA (Urine)	Biochemistry Lab, Beaumont Hospital, Beaumont Road, D9	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> <b>Acidified</b>	No storage requirements listed		1-3 weeks
ABO Blood Group Anomaly Investigation (Serological)	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		5 days
Acanthamoeba (Amoebic Keratitis)	Micropathology Ltd., Coventry, UK	<b>Corneal scraping</b> on a dry sterile swab	No storage requirements listed		1 Month
Activated Protein C Resistance (APC-R)	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>Sodium Citrate - ref: 363095</b> <b>Sodium Citrate paed - ref: 41.1350.005</b>	Sample must be <b>frozen</b> immediately	Fresh specimen required. Must fill bottle to mark. Sample must be immediately delivered directly to MUH Haematology laboratory staff for sample preparation, required before referral to GUH.	5 weeks
Acylcarnitines	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Guthrie card</b> 2 blood spots on Newborn Screening card, air dry for 2 hours	No storage requirements listed	Full clinical information and reason for request must accompany specimen. Not processed if clinical details indicate development delays etc. Send to Biomnis if this is the case	1-3 weeks

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Acylcarnitines	Great Ormond St via Biomnis	<b>Guthrie card</b> 2 blood spots on card, air dry for 2 hours	Ambient	Sent to Biomnis if patient clinical details are development delays etc. Full clinical information and reason for request must accompany specimen.	1 week
Adalimumab	Immunology Dept, Northern General hospital, Sheffield via Biomnis	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+4°C)	Please contact MUH Specimen Reception for required clinical forms.	6 weeks
ADAMTS – 13 ( <i>von Willebrand factor-cleaving protease</i> (VWF <sub>CP</sub> ))T.T.P Screen	Haemostasis and Thrombosis Lab, Belfast City Hospital	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	Samples must be transported on <b>dry ice</b> and only be transported Tuesday to Friday only.	Pre authorization with Consultant Haematologist/ SPR and arrangement with Haematology laboratory. Send immediately to Haematology Dept for pre-analytical preparation before referral. Request form must be completed. Coag Samples: Check sample for clots, Double spin (as for Thrombophilia Screen). Samples must be stored at -70°C (-80°C freezer in Microbiology) in aliquots of 0.5mls.	Non urgent < 3weeks Urgent <6wks
Adenosine Deaminase activity	Eurofins Biomnis France - Referred in Begin Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL) or <b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b> or <b>Pleural Fluid</b> <b>White Top Universal - Ref: UNI0003C</b> or <b>Ascite fluid</b> <b>White Top Universal - Ref: UNI0003C</b>	<b>Refrigerated</b> (+4°C)		6 weeks
Adenovirus / Rotavirus Antigen (<5 yr old)	Medical Microbiology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b>	<b>Refrigerated</b> (+4°C)		5 days
Adenovirus / Rotavirus Antigen (>5 yr old)	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b>	<b>Refrigerated</b> (+4°C)		5 days
Adrenocorticotrophic hormone (ACTH) (Adult) ( <i>Corticotrophin</i> )	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K<sub>3</sub>EDTA (Aprotinine) - Ref: 361017</b> (1mL)	Sample must be <b>frozen</b> immediately	Alert and hand directly to laboratory specimen reception staff	4 days

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Adrenocorticotrophic hormone (ACTH) (Adult) ( <i>Corticotrophin</i> )	Clinical Biochemistry, Galway University Hospital	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (4mL) must be delivered on ice	Sample must be <b>frozen</b> immediately	Contact Biochemistry MUH for ice pack. Alert and hand directly to laboratory specimen reception staff on ice	4 days
Adrenocorticotrophic hormone (ACTH) (Paeds) ( <i>Corticotrophin</i> )	St Vincents Hospital via Crumlin	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA Paediatric tube - Ref: 72001</b> (2.7ml)	Sample must be <b>frozen</b> immediately	Contact Biochemistry MUH for ice pack. Alert and hand directly to laboratory specimen reception staff on ice	4 days
Aldosterone	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (3mL)	Sample must be <b>frozen</b> immediately	Whole blood EDTA samples should be sent to the lab as soon as possible after specimen collection. Do not refrigerate these samples or do not send them on ice. EDTA samples which have been centrifuged and separated should be sent to the lab frozen.  Please include the position the patient was in whilst blood was being taken (ie Supine or Erect). This will aid in clinical interpretation of results. External users subject to service level agreement. Contact laboratory for further information.	6 days
Aldosterone	Biochemistry Laboratory, St James's Hospital	<b>EDTA Plasma</b> <b>2x K<sub>3</sub> EDTA - Ref 368857</b> (5mL)	Sample must be <b>frozen</b> immediately	Whole blood EDTA samples should be sent to the lab as soon as possible after specimen collection. Do not refrigerate these samples or do not send them on ice. EDTA samples which have been centrifuged and separated should be sent to the lab frozen.  Please include the position the patient was in whilst blood was being taken (ie Supine or Erect). This will aid in clinical interpretation of results. External users subject to service level agreement. Contact laboratory for further information.	6 days
Alkaline Phosphatase Isoenzymes	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+4°C)		5 days
Allergen Specific IgE (Rast)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Must specify allergen according to history. Comment : Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield	7 days

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Alpha fetoprotein (AFP)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		Priority: 1 working day Routine: 4 working days
Alpha- Thalassaemia by Molecular Testing	Blood Sciences Laboratory, Ground Floor Bessemer Wing, King's College Hospital, Denmark Hill	<b>EDTA Plasma</b> <b>4x K3 EDTA - Ref 368857</b> (4mL)	Ambient		10 days
Alpha-1-Antitrypsin	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Alpha-1-antitrypsin subtypes not performed here, but available in Beaumont Hospital	5 days
Alpha-1-Antitrypsin	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		4 days
Alpha-1-Antitrypsin Clearance, serum+stools	Eurofins Biomnis Paris, France via Eurofins	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> (30g) and <b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)		7 days
Alpha-1-Antitrypsin Phenotyping	Alpha-1-Foundation, RCSI Building, Beaumont Hospital, Dublin 9	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		6 weeks
Alpha-1-iduronidase (Screen for Hurlers Syndrome)	Willink Unit, Royal Manchester Children's Hospital	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (5mL)	No storage requirements listed	Needs to be received in referral laboratory within 72 hours of collection. Contact Specimen reception for further details	2 weeks
Aluminium	Trace Laboratories Moseley, UK via Eurofins	<b>Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Urine</b> <b>White Top Universal -Ref: UNI0003C</b> (10mL)	<b>Refrigerated</b> (+4°C)	Spin down and immediately decant plasma from cells. Immediately decant the plasma.(maximum 1 hour)	10 days
Amikacin	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL) or <b>Plasma</b> <b>PST gel - Ref 367962</b> (3mL)	Sample must be <b>frozen</b> immediately		2 days

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Amino Acids (Blood)	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL) or <b>PST gel - Ref 367962</b> (3mL ) <b>Plasma</b>	Sample must be <b>frozen</b> immediately	Clinical details must be provided for interpretations and appropriate follow-up. Please provide clinical details or sample will not be processed.	2-3 days
Amino Acids (Urine)	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Urine</b> <b>White Top Universal- Ref:</b> <b>UNI0003C</b>	Sample must be <b>frozen</b> immediately	<b>Not analysed in Temple Street if clinical details include development delays etc. Fresh urine required.</b> Will only be analysed when clinically warranted (e.g. suspected tubulopathy, stone formation, or cystinuria). Clinical details must be provided for interpretations and appropriate follow-up.	2-3 weeks
Amino Acids (Urine)	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>White Top Universal - Ref:</b> <b>UNI0003C</b> 2 x containers early morning urine <b>(Fasting)</b>	Sample must be <b>frozen</b> immediately	<b>Sent to Biomnis if clinical details indicate developmental delays, autism etc.</b> Home sampling is not advisable. Enclose the specific clinical information form (R1-INTGB : Amino Acids - Organic Acids) The urine creatinine level, essential information for the result interpretation, is systematically performed	1 week
Amiodarone (Cordarone)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	Sample must be <b>frozen</b> immediately		1 week
Amyloid	National Amyloidosis Centre, Royal Free Hospital, London NW3 2QG	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (3mL) whole blood	No storage requirements listed		
Androstenedione Delta 4, serum	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL) or <b>PST gel - Ref 367962</b> (3mL ) <b>Plasma</b>	<b>Refrigerated</b> (+4°C)		5 days
Angelman's Syndrome ( <i>Karyotype/FISH</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>Lithium heparin (non-gel) -</b> <b>Ref: 367883</b> (5mL)	Ambient	Each request must ALWAYS be accompanied by a consent form signed by the patient and the prescribing pathologist	9-21 days; 9 if paediatric emergency
Angiotensin Converting Enzyme (ACE)	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		3 days
Antenatal group, antibody screen and antibody identification, phenotyping ( <i>as required</i> )	Galway Blood Transfusion Establishment (GBTE), Galway University Hospital	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	Note TAT: Within 5 working days of receipt of sample. For urgent samples a verbal report will be available within 2 working days except where quantification is required as these are referred to the IBTS and may take longer	Urgent: 2 days Routine: 5 days
Anti Acetylcholine Receptor Abs	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately	Fresh specimen required. Must fill bottle to mark. Send immediately to Biochemistry Laboratory or Laboratory Specimen Reception M U H. Pre-analytical preparation freezing) required before referral	7 days
Anti Actin Antibody	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		5 days



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Anti C1q Antibodies	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		3 days
Anti- D Quantitation	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		5 days
Anti Diuretic Hormone (ADH) ( <i>Vasopressin</i> )	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K<sub>3</sub>EDTA (Aprotinine) - Ref: 361017</b> (5mL)	Sample must be <b>frozen</b> immediately. Spin down in reffridgerated centrifuge	Freeze plasma within 1 hour after sampling. Patients should avoid substances that influence ADH secretion, i.e. nicotine, alcohol, caffeine, diuretics. Spin down in a refrigerated centrifuge	8 days
Anti Endomysium IgA Antibody	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		5 days
Anti Gliadin Abs (IgG+IgA)	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		3 days
Anti Insulin Antibodies (Total)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately		8 days
Anti Intrinsic Factor Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		2 weeks
Anti Islet Antigen 2 Antibodies (IA2A)	Northern General Hospital, Sheffield Teaching Hospitals Foundation Trust	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		13 days
Anti Islet Cells Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		4 days
Anti Mullerian Hormone	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	ALWAYS attach the clinical and ultrasound information. ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.	3 days
Anti MUSK Antibodies	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		2 months
Anti Neuromyelitis Optica (NMO) Antibodies (AQP4)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		10 days

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Anti Neurone Antibodies (CSF)	Eurofins Biomnis Lyon, France via Eurofins	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b>	<b>Refrigerated</b> (+4°C)		6 days
Anti Neurone Antibodies (Serum)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		6 days
Anti NMDA receptor Antibodies (CSF)	Eurofins Biomnis Lyon, France via Eurofins	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b> (1mL)	<b>Refrigerated</b> (+4°C)		10 days
Anti NMDA receptor Antibodies (serum)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		10 days
Anti Nuclear Antibody (ANA)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti Purkinje Cell (Yo) Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		
Anti SP100 IgG Antibodies	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+4°C)		6 days
Anti Stomach Parietal Cells Antibodies	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		3 days
Anti Streptodornase (Anti DNase) B Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		6 days
Anti Thyroglobulin (TG) Abs	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		1 day
Anti Transglutaminase (TTG) Antibodies	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		3 days
Anti TSH Receptor Antibodies	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		4 days
Anti Tyrosine Phosphatase (IA2) Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately		8 days
Anti Zn Transporter 8 (ZnT8) Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		18 days
Anti-Adrenal Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		7 days

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Anti-Beta-2 Glycoprotein-1 Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Antibody investigation	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>2 x K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		5 days
Anti-c Quantitation	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		5 days
Anti-Cardiolipin Antibodies ( <i>Vasculitis Screen</i> )	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-Centromere Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-Cyclic citrullinated peptide antibodies (CCP)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-double stranded DNA Antibody (dsDNA)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Only performed in the context of positive ANA	7 days
Anti-Endomysial Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	IgA anti-endomysial antibody test if IgA anti-tTG screening test positive.	10 days
Anti-Extractable Nuclear Antigens (ENA) Screen: Sm/RNP/Ro/La/Scl-70/Jo-1)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-Gastric Parietal Cell Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-Glomerular Basement Membrane Antibodies (GMB)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		5 days
Anti-Glutamic Acid Decarboxylase (GAD) Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		7 days
Anti-glycolipid antibodies (Gangliosides) (CSF)	Eurofins Biomnis Lyon, France via Eurofins	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b> (1mL)	<b>Refrigerated</b> (+4°C)		13 days
Anti-glycolipid antibodies (Gangliosides) (Serum)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		13 days



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Anti-Histone Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		3 weeks
Anti-IgA Antibodies	Immunology Dept, Northern General Hospital, Sheffield	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		6 weeks
Anti-Jo-1 Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		10 days
Anti-La (SS-B) Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		10 days
Anti-Liver Kidney Microsomal (LKM) Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-M2 Mitochondrial (Pyruvate Dehydrogenase) Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		3 weeks
Anti-Mitochondrial Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		10 days
Anti-Myeloperoxidase (MPO) Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-Neutrophil Antibody	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Bristol	<b>Adults</b> <b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL) Sample must be centrifuged and free from haemolysis  <b>Neonates</b> Maternal samples: <b>EDTA Plasma</b> <b>3x K3 EDTA - Ref 368857</b> (6mL) and <b>Serum</b> <b>SST gel - Ref: 367954</b> (6mL) Paternal samples: <b>EDTA Plasma</b> <b>3x K3 EDTA - Ref 368857</b> (6mL) Neonatal samples: <b>EDTA Plasma</b> if possible <b>K3 EDTA - Ref 368857</b> (1mL)	Refrigerated (+4°C)	Pre authorisation with Consultant Haematologist/ SPR and arrangement with laboratory. Sample must reach Haematology before 11.00. Only submit samples Monday to Wednesday for same day referral. Request Request form must state most recent neutrophil count, medication, and must be signed by requesting clinician Ensure that sample is sent on day of collection to ensure that sample is in Bristol within 72 hours	21 days
Anti-Neutrophil Cytoplasmic Antibodies (ANCA)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		5 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Anti-Ovarian Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		7 days
Anti-Pemphigus and Pemphigoid Autoantibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		14 days
Anti-Phospholipase 2A Receptor Antibodies (PLA2R)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-Platelet Antibody Investigation	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Bristol	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		
Anti-potassium channel antibodies (anti-VGKC/anti-Lgi 1/anti-Caspr2)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (6mL)	<b>Refrigerated</b> (+4°C)		8 days
Anti-Proteinase 3 (PR3) Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-Ribosomal P Protein Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		3 weeks
Anti-Ro (SS-A) Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		10 days
Anti-Scl-70 (Topoisomerase 1) Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		10 days
Anti-Skeletal (Striated) Muscle Antibodies	Immunology Dept, Northern General Hospital, Sheffield	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		6 weeks
Anti-Sm (Smith) Antibody	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		10 days
Anti-Smooth Muscle Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-Soluble Liver Antigen (SLA) Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		3 weeks
Anti-Streptolysin-O (ASO/ASOT)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		1 week

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Anti-Thrombin (refer to <i>Thrombophilia Screen</i> )	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>Sodium Citrate - ref: 363095</b> (2.7ml)	No storage requirements listed	Requests should be received in the laboratory within eight hours of phlebotomy. Send immediately to MUH Haematology Laboratory. Pre-analytical preparation required before referral. Details of anticoagulant therapy required. Must fill bottle to mark.	5 weeks
Anti-Thyroid Peroxidase (TPO) Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Anti-UI RNP Antibodies	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		10 days
Anti-Voltage Gated Calcium Channel (VGCC) antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		15 days
Anti-Xa (Low M.W. Heparin Assay)	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be <b>frozen</b> immediately	Send immediately to Coagulation Laboratory. Samples must be centrifuged and plasma removed within 2 hours of phlebotomy. Prepare as per Factor Assay. State type of LMWH and state time of the last heparin dose on the request form and sampling time. Must fill bottle to mark.	7 days
Arsenic, urine	Trace Laboratories Moseley, UK via Eurofins	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (10mL)	No storage requirements listed		10 days
Aspergillus, screening (Farmers Lung)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (10mL)	<b>Refrigerated</b> (+4°C)		6 days
Atypical Pneumonia Screen	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days
Auto Immune ENA Panel	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Profile includes anti-: nRNP, Sm, SS-A, Ro-52, SS-B, Scl-70, PM-Scl, Jo-1, Centromere, PCNA, dsDNA, Nucleosomes, Histones, Ribosome-P protein and AMA-M2	3 weeks
Auto Immune Inflammatory Myopathy panel	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Profile includes anti-: Mi-2 alpha, Mi-2 beta, TIF1 gamma, MDA5, NXP2, SAE1, Ku, PM-Scl100 and PM-Scl75, OJ, EJ, Jo-1, PL-7, PL-12, SRP and Ro-52	3 weeks
Autoimmune Haemolytic Anaemia	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>2 x K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		5 days
Autoimmune Liver Disease Panel	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Profile includes anti: AMA-M2 (pyruvate dehydrogenase complex), M2-3E (BPO, fusion protein of the E2 subunits of the alpha-2-oxoacid dehydrogenases of the inner mitochondrial membrane), Sp100, PML, gp210, LKM-1, LC1, SLA/LP and Ro52.	3 weeks

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Autoimmune Systemic Sclerosis Panel	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Profile includes anti-Scl-70, Centromere A, Centromere B, RNA Pol III(RP11 and 155), Fibrillarin, NOR 90, Th/To, PM-Scl 100, PM-Scl75, Ku, PDGFR and Ro-52	3 weeks
Azathioprine	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Biomnis	<b>Plasma</b> <b>2x Lithium Heparin - Ref:367883</b> (5mL)	<b>Refrigerated</b> (+4°C)	<b>Specify:</b> - the reasons for the prescription (efficiency and/or toxicity test), - the sampling time - the treatment start date and/or the date of any change of dosage - the dosage data (quantity administered, frequency, administration route), - the subject's age, height and weight if possible. Transport within not more than 48 hrs, if possible in less than 24 hrs Do not sample at end of week All requests must ALWAYS contain: - the sampling date and time - the dosage data (quantity administered, frequency, administration route) - the treatment start date and/or the date of any change in dosage - treatment using aminosalicic acid derivatives (Quadrasa, Dipentum, Pentasa, etc.) - clinical data: type of disease - transfusion?, if yes, date or last transfusion To be collected during equilibrium state (i.e at least 3 weeks - 1 month from the start of treatment) Depending on the results, the pathologist may also resolve to perform / invoice TPMT activity	60 days
Bartonella henselae (Cat Scratch Disease) Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		6 days
BCR-ABL (Blood)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (9mL)	<b>Refrigerated</b> (+4°C)	Pre authorization with Consultant Haematologist/ SPR and arrangement with laboratory. Sample must reach Haematology before 11.00. Only submit samples Monday to Thursday for same day referral.	20 days
BCR-ABL (Bone Marrow)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Bone Marrow</b> RPMI (9mL)	No storage requirements listed	Pre authorization with Consultant Haematologist/ SPR and arrangement with laboratory. Sample must reach Haematology before 11.00. Only submit samples Monday to Thursday for same day referral. Medium is available from Histopathology ext 2564.	10-15 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Bence-Jones proteins (Urine Free Light Chains)	Immunology, Galway University Hospital	<b>Urine</b> <b>White Top Universal</b> - Ref: <b>UNI0003C</b> (10mL) First early morning Urine or <b>24h urine</b> <b>24 hour Urine Container</b> Ref: <b>77.575.401</b> for quantification and disease monitoring	No storage requirements listed		10days
Beta-2-Microglobulin	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel</b> - Ref: <b>367954</b> (5mL)	No storage requirements listed		5 days
Beta-2-Transferrin	University of Birmingham, Clinical Immunology Service via Biomnis	<b>Serum</b> <b>SST gel</b> - Ref: <b>367954</b> (3mL) and <b>Biological Fluid</b> <b>White Top Universal</b> - Ref: <b>UNI0003C</b> (200ul)	Sample must be <b>frozen</b> immediately	Attach the clinical data, Freeze the body fluid immediately. The test requires a serum sample, to exclude any serum fraction of beta-2-transferrin, and a body fluid sample, such as oral discharge, nasal discharge or other.	7 days
Beta-Crosslaps (CTx)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel</b> - Ref: <b>367954</b> (3mL) or <b>EDTA Plasma</b> <b>K3 EDTA</b> - Ref <b>368857</b> (3mL)	Sample must be <b>frozen</b> immediately		5 days
Bile Acids	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel</b> - Ref: <b>367954</b> (7mL)	No storage requirements listed		1 day
Biotinidase	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Biomnis	<b>Serum</b> <b>SST gel</b> - Ref: <b>367954</b> (5mL)	Sample must be <b>frozen</b> immediately	Bring directly to Lab and hand to Specimen Reception	4 weeks
Blood Film	Haematology Laboratory, Children's Health Ireland (CHI) Crumlin, Dublin 12, 01-4096432	<b>Blood film:</b> 2x stained and 2x unstained and Copy of the FBC report	No storage requirements listed	Before referral make additional blood films for retention in MUH. If the sample is greater than 24 hours old request a fresh repeat sample.	28 days
Blood Group / Antibody Screen	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		Routine: 24 hrs. Emergency: within 2 hrs of receipt of sample if no antibodies detectable



## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Blood Group and Compatibility Testing	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		Routine: 24 hrs. Emergency: within 2 hrs of receipt of sample if no antibodies detectable
Blood Group and Compatibility Testing (Patients with red cell antibodies)	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>2 x K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	Please note TAT is dependent on the complexity of antibodies detected.	2-6 hours
Bordatella species ( <i>Whooping cough</i> / <i>Pertussis</i> )	Microbiology Laboratory, Children's Health Institute Ireland, CRUMLIN	<b>Perinasal Swab</b> <b>Perinasal Swab - Ref:192C</b> Swab must be in transport media	No storage requirements listed	• Swabs available from Microbiology MUH	1 week
Bordetella pertussis (anti toxin Abs)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		7 days
Borrelia (Lyme Disease) IgG+IgM Antibodies	Eurofins Biomnis Paris, France via Eurofins	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b> (1mL)	<b>Refrigerated</b> (+4°C)		5 days
Borrelia burgdorferi antibodies (Lyme Disease) (Blood)	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL) For CSF-PCR see under Cerebrospinal Fluid	No storage requirements listed	Not Detected, if negative. A Provisional report will be issued on any sample giving reactive findings on initial testing. These specimens are referred to the PHE, Rare and Imported Pathogens Laboratory, Porton Down for further testing and a final report.	1-3 weeks
Brucella Screening, Agglutination	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		7 days
C Peptide	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be <b>frozen</b> immediately		3 days
CA125	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-2 days
CA15-3	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-2 days
CA19-9	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-2 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Cadmium, urine	Eurofins Biomnis Ireland	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (20mL) Random Urine	<b>Refrigerated</b> (+4°C)		8 days
Caffeine, serum	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Biomnis	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately	Collection date and time. Date and time since last dose, and Dosage data. Age, height and weight. General Clinical History. Reason for request, <b>all Must</b> be included on request form	8 days
Calcitonin	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	Sample must be <b>frozen</b> immediately		5 days
Calprotectin	Eurofins Biomnis Ireland	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> (20g minimum)	<b>Refrigerated</b> (+4°C)		8 days
CALR exon 9 mutations ( <i>calreticulin mutation</i> )	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (3mL)	<b>Refrigerated</b> (+4°C)	Send Monday to Thursday before 11.00 a.m.	10-15 days
Campylobacter - serology	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL) Do not use 10mL tube	<b>Refrigerated</b> (+4°C)		6 days
Carbamezepine (Tegretol)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Take specimen immediately before next dose (trough specimen)	7 days
Carbazepine-OH (Trileptal®) ( <i>10-Hydroxy-carbazepine</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Sample must be <b>frozen</b> immediately		7 days
Carnitine Free + Total (MS/MS), serum	Eurofins Biomnis France - Referred in "Groupement Hospitalier Est" in Lyon	<b>Plasma</b> <b>PST (Gel) - Ref: 367962</b> (4mL)	Sample must be <b>frozen</b> immediately		20 days
Carotene (beta)	Eurofins Biomnis France - Referred in Lyon Sud Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately ( <b>protect from light; avoid gel separator tubes</b> )		13 days
Catecholamines (Blood)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>2 x Serum non gel - Ref: 367837</b> (2ml)	Sample must be <b>frozen</b> immediately	2 specific aliquots for this analysis blood draw preferentially after a 30-min resting period Fasting sample Sample to be frozen within 1 hour. Home sampling is not advisable.	7 days

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Catecholamines and Metabolites (Adrenaline / Noradrenaline (VMA) / Dopamine / Metanephrine / Normetanephrine) (Urine)	Biochemistry Lab, Beaumont Hospital, Beaumont Road, D9	<b>Urine</b> <b>24 hour Urine Container</b> <b>Ref: 77.575.401</b> (Pre-acidified 50% acid)	No storage requirements listed		12 days
CEA	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-2 days
CEBPα (Multi Targeted NGS Panel)	Pathology Sciences, North Bristol NHS Trust, Southmead Hospital, Westbury-on-Trym, Bristol BS10 5NB	<b>EDTA Plasma</b> <b>2x K3 EDTA - Ref 368857</b> (3mL)	Ambient		21 days
Ceruloplasmin	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		5 days
Chlamydia pneumoniae serology	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	By prior arrangement with Microbiology Medical Staff	1-3 weeks
Chlamydia psittaci Antibodies	Health Protection Agency, Bristol BS2 8EL	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist.	2-5 days
Chlamydia trachomatis & Nesseria gonorrhoea dual assay (PCR)	Virology, Galway University Hospital	<b>Urethral swab</b> In-house only <b>Abbott Multicollect swab</b> <b>Ref: 9K12-02</b> <b>Note: Urine collected as part of Abbott Multi Collect will only be tested on male patients from the STI clinic</b> <b>Urethral swab</b> <b>GP Males only</b> <b>Aptima unisex swab device Ref: 301041</b>	If delayed <b>refrigerate</b> (+4°C)	<ul style="list-style-type: none"> <li>In house and STI Clinic patients only.</li> <li>Note: Urine collected as part of Abbott Multi Collect will only be tested on male patients from the STI clinic</li> </ul> Abbott Multicollect swab preferably delivered to the laboratory within 24 h of collection.	10 days
Chlamydia trachomatis & Nesseria gonorrhoea dual assay (PCR)	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Urine</b> <b>Aptima Urine Collection Kit (GC Test)</b> <b>Ref: 301040</b>	No storage requirements listed	•GP only - urine from both male/female patients	
Cholinesterase	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)		4 days
Chromium	Trace Laboratories Moseley, UK via Eurofins	<b>Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (10mL)	<b>Refrigerated</b> (+4°C)		10 days

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Chromogranin A	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be <b>frozen</b> immediately	Do not use haemolysed samples. Do not use phase separator tubes	6 days
Chromosome Analysis (Culture)	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL)	Ambient		13 days
Chromosome Analysis, Products of conception/ CVS	Eurofins Biomnis Lyon, France via Eurofins	<b>Chorionic villus specimen</b>	Ambient	Contact Histology regarding specimen collection container	5 (Direct Examination) 8 - 18 (Culture)
Chromosome Y microdeletions (Multiplex PCR)	Eurofins Biomnis Ireland	<b>Cultivated amniotic fluid, cultivated trophoblasts</b>	Ambient	Contact Histology regarding specimen collection container	13 days
Citric acid ( <i>Citrate</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (5 mL) (non acidified)	Sample must be <b>frozen</b> immediately	Specify total volume Excluding any urinary tract infection Specify diuresis Store urine in a cool place during collection. Shake the urine before aliquoting into a 5 mL haemolysis tube (do not overfill)	6 days
Clostridium difficile toxin B gene detection	Medical Microbiology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> (1-2g during acute phase of illness)	Refrigerate (+4°C). If delayed >72h sample must be frozen (-20°C)	•C. difficile requests are appropriate in particular in hospitalized patients who have developed diarrhoea while receiving antimicrobial agents. • Ensure sample is in a leak proof laboratory container	5 days
Clozapine (Leponex®, Clozaril)	Eurofins Biomnis Lyon, France via Eurofins	<b>Plasma</b> <b>Lithium heparin (non-gel) - Ref: 367883</b> (1mL)	<b>Refrigerated</b> (+4°C)	Do not use gel separator tubes	7 days
Coagulation Factor Assays (incl Factors – II, V, VIII, VIII:C, IX, XI, XII, and FX)	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> <b>Sodium Citrate paed - ref: 41.1350.005</b>	Sample must be <b>frozen</b> immediately	Prior arrangement with Haematology, Mayo University Hospital. It is important that the specimen container is filled to the mark. Sample must be immediately delivered directly to MUH Haematology laboratory staff for sample preparation, required before referral to GUH. Sample preparation 1) Check for clots and haemolysis, 2) Attach “sample checked for clots” label to request form 3) Centrifuge at 2500g for 5mins 4) Remove plasma into 3 tubes labelled with Patients Name, B.N. and date 5) Store in freezer until transport	1 day
Cobalt	Trace Laboratories Moseley, UK via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (10 mL)	<b>Refrigerated</b> (+4°C)		10 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Coeliac Screen ( <i>Anti-Tissue Transglutaminase (TTG) Antibodies</i> )	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	IgA anti-tTG antibody test. If selective IgA deficiency then IgG anti-tTG test performed. If IgA anti-tTG screening test positive, IgA anti-endomysial antibody test is performed.	7 days
Complement C1 Esterase Inhibitor	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		5 days
Complement C1 Esterase Inhibitor Functional Assay	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Must arrive in Immunology on the same day it was taken. Time and date of collection must be stated on request form	5 weeks
Complement C1 q	Immunology Dept, St James Hospital, Dublin	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	No storage requirements listed		8 weeks
Complement C3 Nephritic Factor	Immunology Dept, Northern General Hospital, Sheffield	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		6 weeks
Complement C3/ C4	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		5 days
Complement: C2/C5/C6/C7/C8/C9	Immunology Dept, St James Hospital, Dublin	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	No storage requirements listed		8 weeks
Complex Immunohaematology Testing	IBGRL Molecular Diagnostics NHS Blood and Transplant North Bristol Park Filton, Bristol via IBTS	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL) Contact RCI for sample volume information prior to referral	Ambient	Due to the varying nature of the requests sent to Red Cell Reference a turnaround time cannot be specified. The time between receipt of sample and reporting will depend on the clinical situation of the patient, the complexity of the investigation and the number of samples in the laboratory at any given time. Cases are prioritised and therefore some investigations may be necessarily delayed.	Not specified
Connexin 26 and 30	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Plasma</b> <b>EDTA - Ref 368857</b> (5mL) <b>K3</b>	<b>Refrigerated</b> (+4°C)		3 months
Single Nuclear Polymorphism (SNP) Microarray / CGH Array (Genetic Testing)	Eurofins Biomnis Lyon, France via Eurofins	<b>Heprarin Whole Blood</b> <b>Sodium Heparin - Ref 3678676</b> (5ml)	No storage requirements listed		3 weeks
Copper, urine	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (20 mL)	<b>Refrigerated</b> (+4°C)		6 days
Cortisol	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-4 days



## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Cortisol Free, urine	Eurofins Biomnis Paris, France via Eurofins	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (20 mL) or <b>Spot urine</b> <b>White Top Universal - Ref: UNI0003C</b> (10 mL)	<b>Refrigerated</b> (+4°C)		5 days
Coxiella burnetii - phase 1 and 2 (Q Fever)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>Do not use 10ml tube.</li> <li>Phase I and II titration and serology are triggered if the phase II serology is positive</li> </ul>	3 days
Coxsackie (Picornavirus, Enterovirus) (CFT)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)		5 days
C-Peptide	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be <b>frozen</b> immediately	Fasting	7 days
Creatine phosphokinase - isoenzymes	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)	Not to to be performed on haemolysed sample	7 days
Creatine phosphokinase MB (CK-MB)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be <b>frozen</b> immediately		2 days
Creatinine, urine	Eurofins Biomnis Ireland	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b>	No storage requirements listed	State total volume. 15ml aliquot required (3 hour minimum collection)	4 days
Creutzfeld Jakob Disease (CJD, 14-3-3 Protein)	Microbiology Dept., Beaumont Hospital	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b> (2-5mLs)	No storage requirements listed	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist. Questionnaire would require to be completed.	3-6 weeks
Cryptococcal Antigen	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Available only in very specific circumstances and with prior approval of a GUH Consultant Microbiologist.	7 days
Cryptosporidium parvum	Medical Microbiology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> (1-2g during acute phase of illness)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>Cryptosporidium spp is tested routinely on all outpatients (GUH).</li> <li>Ensure sample is in a leak proof laboratory container</li> </ul>	2 days
Cyclosporin (Neoral)	Clinical Biochemistry, Galway University Hospital	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (4mL) whole blood	No storage requirements listed	Collect sample pre-dose. State date/time of sample collection clearly on request form.	7 days
Cystic Fibrosis– Genetic Test	Department of Clinical Genetics, CHI Crumlin	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (5mL) (whole blood)	No storage requirements listed	Must complete CF patient information request form (CF PID), download from <a href="http://www.genetics.ie">www.genetics.ie</a>	10 weeks
Cystic Fibrosis Screen (51 mutations)	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (5mL) (whole blood)	Ambient	<p>Sample must be refrigerated if transport is &gt; 48 hours</p> <p>Enclose the specific clinical information form (R23-INTGB : Cystic fibrosis gene analysis (CFTR gene))</p> <p>According to regulation, each request must ALWAYS be accompanied by a consent form signed by the patient and the prescribing pathologist</p> <p>Forms required, please contact Specimen reception</p>	13 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Cystine	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> 2 x containers early morning urine <b>(Fasting)</b>	Sample must be <b>frozen</b> immediately	Fasting sample Sample to be frozen within 1 hour. Home sampling is not advisable. Enclose the specific clinical information form (R1-INTGB : Amino Acids - Organic Acids) - form required, contact specimen reception The urine creatinine level, essential information for the result interpretation, is systematically performed	1 week
Cytogenetics for MDS	Sheffield Regional Cytogenetics Service, Sheffield Childrens NHS Foundation Trust	<b>Lithium Heparin Whole Blood</b> <b>Lithium Heparin (non gel) - Ref: Ref: 367883</b> (2mL)	No storage requirements listed	Must reach referral lab within 48 hrs. Take samples on day of referral before 11.30 a.m Monday to Wednesday. Requesting Dr must complete request form provided by referral laboratory	
Cytogenetics: Chromosome Analysis / Karyotyping	Eurofins Biomnis France	<b>Lithium Heparin Whole Blood</b> <b>Lithium Heparin (non gel) - Ref: Ref: 367883</b> (2mL)	No storage requirements listed		
Cytogenetics: Chromosome Analysis / Karyotyping	Eurofins Biomnis Lyon, France via Eurofins	<b>Fetal or placental tissue</b> RPMI	Ambient	Samples must be in laboratory reception with required consent form (electronic version available on gynae ward PC) and request form, before 12pm Mon to Wed to ensure delivery to France. Medium is available from Histopathology ext 2564.	
Cytogenetics: Chromosome Analysis / Karyotyping Paediatric (age <5 years)	Department of Clinical Genetics, CHI Crumlin	<b>Lithium Heparin Whole Blood</b> <b>Lithium Heparin (non gel) - Ref: Ref: 367883</b> (2mL)	Ambient	Request form required for DCG (download from www.genetics.ie) Sample preferably to arrive in lab by 11:00 on Thursdays for transport to DCG NOTE: Only sent when specified, otherwise referred to Eurofins Biomnis	10 weeks
Cytomegalovirus (CMV – PCR)	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Plasma</b> <b>2x K2EDTA - Ref: 368857</b> (8mL)	Sample must be <b>frozen</b> immediately	Specimens must be delivered directly to a staff member within 3 hours of phlebotomy.	1-3 weeks
Cytomegalovirus (CMV) IgG / IgM Antibodies	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-2 weeks
Cytomegalovirus (CMV) –Urine	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> Freshly voided urine Sterile Universal	<b>Refrigerated</b> (+4°C)	• Send directly to Specimen Reception to be refrigerated. • Specimens must be delivered to the Specimen Reception by 10 :00am to ensure same day dispatch to the NVRL.	1-3 weeks

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Dehydroepiandrosterone (DHEA)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	CIRCADIAN RHYTHM: This biological molecule has a circadian rhythm (maximum concentration in morning), with a sufficiently significant amplitude to have an important influence on the clinical interpretation	5 days
Dehydroepiandrosterone Sulfate (DHEAS)	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)		3 days
Dengue fever Antibodies	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	By prior arrangement with the Consultant Microbiologist Comment: Available only in very specific circumstances and with prior approval of a Consultant Microbiologist	1-3 weeks
Digoxin	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Take specimen six hours post dose, Hypokalaemia is associated with an enhanced response to digoxin. Potassium should always be measured when digoxin toxicity is suspected.	1 day
Dihydropyrimidine Dehydrogenase (DPD) Activity	Synnovis Analytics LLP, Research Laboratories, St Thomas Hospital	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (4mL)	<b>Refrigerated</b> (+4°C)		3 weeks
Direct Antiglobulin Test	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		2 days
Duchenne Muscular Dystrophy (DMD)	MVZ Dr. Eberhard & Partner Dortmund via Biomnis	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (4mL)	No storage requirements listed	Complete patient's history and family history (family tree) + Please also confirm if the mutation has been described in the patient's family, if so please confirm which relative	3 weeks
Echinococcus (Hydatidosis)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)		7 days
Echinococcus (Hydatid cyst) antibodies	Hospital for Tropical Diseases, London WC1E 6AU	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	If viability is required the aspirate should be kept at room temperature and reach us within 24 hours. Available only in very specific circumstances and with prior approval of a Consultant Microbiologist.	
Elastase	Eurofins Biomnis Paris, France via Eurofins	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> (5g minimum)	<b>Refrigerated</b> (+4°C)	Enclose the specific clinical information form (R29-INTGB : Functional Coprology) - form required contact specimen receipt Liquid stools are accepted but the dilution may result in underestimation of elastase levels. Use : small pot	13 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Electron Microscopy	Histopathology Department, Galway University Hospital	<b>Biopsy</b>	Place the biopsy in normal saline to maintain hydration and deliver to the laboratory immediately.	Discuss with appropriate Consultant Histopathologist. Please notify the Histopathology Department (ext 2564) at least 24 hours in advance. Please contact Histology Department to confirm collection container	
Elution	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		2 days
Entamoeba histolytica Abs, serology (IF+ Hemagglutination) - Amoebic screen	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		6 days
Enterobius vermicularis	Medical Microbiology, Galway University Hospital	<b>Slide</b> Apply sellotape to anal area, fix to slide, send to Laboratory	<b>Refrigerated</b> (+4°C)		2 days
Enterovirus PCR ( <i>ECHO Virus</i> )	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b>	No storage requirements listed		1-2 weeks
Epstein – Barr Virus (EBV) Antibodies	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-2 weeks
Erythrocyte Membrane Antigen Analysis (EMA) (Hereditary Spherocytosis screening)	Haematology Laboratory, CHI Crumlin	<b>EDTA</b> <b>EDTA paediatric tube - Ref: 72001</b>	Ambient	Must reach referral lab within 48 hrs. Take samples on day of referral before 11.30 a.m. Mon to Thurs	1 weeks
Erythropoietin (EPO)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be <b>frozen</b> immediately	Sample must be taken in the morning due to variation throughout the day	4 days
Ethylene Glycol	Clinical Toxicology, City of Birmingham Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Contact Consultant Chemical Pathologist (through Biochemistry Lab) who will advise as to the necessity for having the assay sent to ??? as an emergency	
Extended RBC Phenotyping	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		5 days
Factor Inhibitor Studies	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>3x Sodium Citrate - ref: 363095</b> (2.7ml)	No storage requirements listed	Prior arrangement with coagulation laboratory necessary. Must fill bottle to mark.	1 week

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Factor V Leiden Mutation	National Centre for Haemophilia and Coagulation Diseases, St James Hospital	<b>EDTA Plasma</b> <b>1 x K3 EDTA - Ref 368857</b> (4mL) <b>and</b> <b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	<b>Refrigerated</b> (+4°C)	<p><b>Form required:</b> The coagulation team can be consulted for advice for thrombophilia screen requests. Samples must be received in National Coagulation Laboratory, Centre for Laboratory Medicine and Molecular Pathology, by 4pm Monday - Friday.</p> <p>1) Sample must be &lt;3 days old on receipt in Referral Laboratory 2) Sample must only be sent if APCR is abnormal or Positive Lupus anticoagulant or on heparin. Check LIS to determine if APCR has been performed previously. 3) The APCR results must be documented on the request form 4) National Coagulation Laboratory Request form (H/EXT/146) must be completed. Consent form H/EXT/148 must also be sent to the doctor with the request form</p> <p>This test is not generally performed during childhood unless specifically requested by a Consultant Paediatric Haematologist.</p> <p>The Coagulation Consultant on-call can be contacted through the hospital switchboard on 01 410 3000.</p>	8 weeks
Factor XIII	Coagulation Laboratory, St James Hospital, Dublin	<b>Citrated Plasma</b> <b>3x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be <b>frozen</b> immediately	Samples must be stored and transported -20.	5 days
Faeces –Microscopy, Culture and Antigen Detection	Medical Microbiology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> (1-2g during acute phase of illness)	<b>Refrigerated</b> (+4°C)	: Shigella Spp. survival may be compromised @ 2-8°C – delay reduces isolation	3 days
Familial Hypercholesterolemia – comprehensive LDLR + APOB + PCSK9 + LDLRAP1 sequencing (Molecular Biology)	The Doctors Laboratory, The Halo Building, 1 Mabledon Place, London WC1H 9AX, UK.	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (5mL)	No storage requirements listed		4 weeks
Fanconi Screen	Sheffield Diagnostic Genetics Service, Sheffield Children's NHS Foundation Trust, Western Bank, SHEFFIELD, S10 2TH, 0044- 114-271-7014	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Ambient	N.B. Patient must not have had a transfusion in previous three months. Send on Monday before 11.00am excluding Bank Holidays in Ireland or U.K. Samples must arrive within 3 days of taking	14 days



## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Fanconi's Anaemia (Chromosome breakage screen)	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) Whole Blood	Ambient		13 days
Fatty Acids (Very Long Chains)	Addenbrookes Hospital, Hills Rd., Cambridge CB2 0QQ, UK.	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (4mL)	Sample must be <b>frozen</b> immediately		13 days
Fetal Rh/K typing from Maternal blood ( <i>gestation at 16-20 weeks</i> )( <i>Molecular test</i> )	IBGRL Molecular Diagnostics NHS Blood and Transplant North Bristol Park Filton, Bristol via IBTS	<b>EDTA Maternal sample:</b> <b>3x K<sub>2</sub>EDTA (cross match)</b> (16mL) <b>Partner:</b> <b>K2EDTA (cross match)</b> (3mL)	Ambient	Pregnancy must be at least 16 weeks for RhD/C/E/c Pregnancy must be at least 20 weeks for Kell typing. - for delivery immediately to IBTS (Mon-Thurs) for referral to IBGRL UK	14 days
Fetal RHD Screen ( <i>CFF DNA</i> )	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> 2 x <b>K<sub>2</sub>EDTA (cross match)</b> (≥8mL)	Ambient		14 days
Filaria Antibodies	Hospital for Tropical Diseases, London WC1E 6AU	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	No storage requirements listed		
FISH Chronic Lymphocytic Leukaemia (CLL)	Department of Clinical Genetics, CHI Crumlin	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857 (5mL)</b> or <b>Bone Marrow</b> RPMI	<b>Refrigerated</b> (+4°C)	Check clinical details with Haematologist requesting the test. Must reach referral lab within 48 hrs. Take samples on day of referral before 11.30am Mon to Thursday. Medium is available from Histopathology ext 2564.	
Flecainide Acetate	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Sample must be <b>frozen</b> immediately	1 individual aliquot for this analysis. Residual level sample (just before administration) Enclose the specific clinical information form (R13-INTGB : Medication quantification)	10 days
Flow Cytometry (Immunotyping of Leukaemias and Lymphomas)	Haematology Department, University Hospital Galway	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> or <b>Bone Marrow/ Lymph Node Biopsy</b> RPMI	No storage requirements listed	Send non-urgent samples Monday to Wednesday only. Prior arrangement with consultant Haematologist GUH. Medium is available from Histopathology ext 2564.	3-5 days
FLT3 – Mutation (Blood)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Plasma</b> <b>2x K3 EDTA - Ref 368857</b> (9mL)	<b>Refrigerated</b> (+4°C)	Sample must be taken before 11.30am only on Mon, Tues, Wed or Thurs. Arrange through Haematology Registrar, or Consultant Haematologist	20 days
FLT3 – Mutation (Bone Marrow)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Bone Marrow</b> RPMI (9mL)	No storage requirements listed	Arrange through Haematology Registrar, or Consultant Haematologist. Medium is available from Histopathology ext 2564.	10-15 days
Follicle stimulating hormone (FSH)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-2 days
Fragile X Chromosome	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (5mL) whole blood	Ambient temperature or 4°C (if transport time >24 hrs)	Consent form must be completed, contact laboratory prior to taking sample	1-4 weeks

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Free light chains (Kappa and Lambda)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		10 days
Fructosamine	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		4 days
Full RBC Genotype	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (≥3mL)	Ambient		14 days
Galactomannan (Aspergillus Antigen) (BAL)	Eurofins Biomnis Lyon, France via Eurofins	<b>BAL</b> <b>White Top Universal - Ref: UNI0003C</b> Sterile Container	<b>Refrigerated</b> (+4°C)		5 days
Galactomannan (Aspergillus Antigen) (Blood)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+4°C)		5 days
Galactomannan antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	No storage requirements listed		
Galactose	Southmead Hospital, Bristol	<b>Heparin Plasma</b> <b>Floride Oxalate - Ref: 368920</b> (2mL)	No storage requirements listed	Take Monday to Wednesday only.	1-2 weeks
Galactose-1- phosphate	Birmingham Children's Hospital	<b>Plasma</b> <b>PST gel - Ref 367962</b> (3mL )	No storage requirements listed	Take Monday to Wednesday only.	
Gastrin	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately		4 days
Gastroenteritis screen, faeces; bioenteric	Virology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> Fresh sample	<b>Refrigerated</b> (+4°C)		3-7 days
Gastrointestinal Tract Hormones (GIT Hormones): <i>incl. Gastrin, Insulin, Somatostatin, N-terminal Glucagon, Cterminal Glucagon, Pancreatic Polypeptide, Vasoactive Intestinal Polypeptide, Trypsin, Total CgA and Neurokinin A</i>	Eurofins Biomnis Ireland	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> Fresh sample	Sample must be <b>frozen</b> immediately	Must fill bottle to mark. Send immediately to Biochemistry Laboratory or Specimen Reception Mayo University Hospital . Pre-analytical preparation (freezing) required before referral	
Glucagon	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K<sub>3</sub>EDTA (Aprotinine) - Ref: 361017</b> (1mL)	Sample must be <b>frozen</b> immediately	Special tube (EDTA + Aprotinin) supplied upon request. Centrifuge at +4°C and FREEZE the plasma immediately. Sample on special tube (EDTA + Aprotinin) supplied on request.	2-4 weeks

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Glucose-6-phosphate dehydrogenase (G6PD) Quantitation	Centre for Laboratory Medicine & Molecular Pathology, St James' Hospital, Dublin 8, D01 NHY1	<b>EDTA Plasma</b> <b>2x K3 EDTA - Ref 368857</b> (4mL)	No storage requirements listed		7 days
Glucose-6-phosphate dehydrogenase (G6PD) Screening	Haematology Department, University Hospital Galway	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (3mL) or <b>EDTA Paediatric tube - Ref: 72001</b> (1.3mL)	No storage requirements listed		1 day
Glycosaminoglycans (GAG) electrophoresis, urine	Great Ormond Street Hospital, Great Ormond St., London WC1N 3JH, UK.	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (50 mL)	Sample must be <b>frozen</b> immediately		13 days
Growth Hormone	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be <b>frozen</b> immediately	It should only be requested as part of a dynamic function test. In general, a random growth hormone measurement has very little diagnostic value.	3 weeks
Haemochromatosis – C282Y and H63D Genetic Mutations	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (5mL) whole blood	Ambient temperature or 4°C (if transport time >24 hrs)	According to regulation, each request must ALWAYS be accompanied by a consent form signed by the patient and the prescribing pathologist. Enclose the specific B12-INTGB request form.	12 days
Haemoglobin A1c (HbA1C)	Eurofins Biomnis Ireland	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (2mL) whole blood	<b>Refrigerated</b> (+4°C)		4 days
Haemoglobinopathy Screen ( <i>Hb F, Hb A2, Hb H, Hb S, sickle cell screen, thalassaemia screen, haemoglobin electrophoresis</i> )	Haematology Dept, St James Hospital	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (4mL) whole blood and <b>Serum</b> <b>Serum (non-gel) - Ref: 367837</b> (5mL)	<b>Refrigerated</b> (+4°C)	Request form must give clinical details, transfusion history and ethnic origin of patient. Levels of HbA2 will be affected by the presence of iron deficiency	2 weeks
Haemolytic Disease of the New-born ( <i>where maternal antibodies are implicated / suspected</i> )	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>Mother:</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL) <b>Baby:</b> <b>K<sub>2</sub>EDTA (cross match)</b> (1-3mL)	Ambient		1 day
Haemophilus influenzae B Antibodies (IgG)	Immunology Dept, St James Hospital, Dublin	<b>Serum</b> <b>Serum (non-gel) - Ref: 367837</b> (5mL)	No storage requirements listed		21 days
Haemophilus influenzae vaccinal Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		8 days
Haemosiderin (Urine)	Haematology Department, University Hospital Galway	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> First morning Urine	No storage requirements listed	First morning urine specimen in a plain universal container	3-5 days
Hantavirus Antibodies	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Only available in very specific cases and following approval by a Consultant Microbiologist and arrangement with NVRL	Contact NVRL

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Haptoglobin	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		5 days
Heinz Bodies	Haematology Department, University Hospital Galway	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (4mL) (whole blood) or <b>EDTA</b> <b>Paediatric tube - Ref: 72001</b> (1.3mL)	No storage requirements listed	Prior authorization by Consultant Haematologist or SPR. Arrange with GUH Haematology laboratory before taking specimen.	2 days
Helicobacter pylori (Culture / biopsy)	Eurofins Biomnis Lyon, France via Eurofins	<b>Antral and/or fundal biopsies</b> <b>Portagerm H.pylori media - Ref: 42041</b>	<b>Refrigerated</b> (+4°C)	• Special agar transport medium - Portagem H.Pylori media supplied upon from Microbiology MUH.	19 days
Helicobacter pylori (Stool)	Eurofins Biomnis Lyon, France via Eurofins	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b>	Sample must be <b>frozen</b> immediately	If refrigerated, the sample must be processed at our laboratory within 72h from its collection. If sample older than 72h, please freeze. This test is performed twice a week only (Mondays and Fridays).	8 days
Helicobacter pylori IgG serology (Serum)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately	Sample requires to be frozen if transport to Eurofins Biomnis is >48hrs	6 days
Heparin Induced Thrombocytopaenia (HITS) Confirmation	National Centre for Haemophilia and Coagulation Diseases, St James Hospital	<b>Serum</b> <b>2x Serum non gel - Ref: 367837</b> (5ml)	Sample must be <b>frozen</b> immediately	HIT Request form must be filled out. All requests for HIT must include the 4T pre-test probability score. Samples must be centrifuged and plasma removed within 2 hours of phlebotomy. Sample preparation 1) Centrifuge both sample at 2500g for 10mins 2) Pool plasma from all samples and centrifuge for 2500g for 10 minutes 3) Aliquot samples into 2ml microtubes to a volume of 750µl. The minimum number of samples required is 6 4) Record sample type on request form 5) Freezer at -20oC overnight Samples must be received in National Coagulation Laboratory, Centre for Laboratory Medicine and Molecular Pathology, by 4pm Monday - Friday.	3 days
Hepatitis A IgM/IgM Antibody	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		7 days
Hepatitis B Antibody/antigen	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Requests for testing post "Needlestick" injury should be notified to the laboratory in advance of sending the specimen	2 days
Hepatitis B DNA / Viral Load	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be <b>frozen</b> immediately	Specimen must be delivered to a Virology staff member within 3 hours of phlebotomy and before 4pm	1-3 weeks
Hepatitis C Antibody	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Only available in very specific cases and following approval by a Consultant Microbiologist	3-5 days



## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Hepatitis C PCR / Viral Load / Genotype	Virology, Galway University Hospital	<b>Plasma</b> <b>K<sub>2</sub>EDTA Separator - Ref: 367885</b> (7mL)	Sample must be <b>frozen</b> immediately	<b>RDU only</b> - Specimen must be delivered to a Virology staff member within 3 hours of phlebotomy and before 4pm	10 days
Hepatitis C PCR / Viral Load / Genotype	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be <b>frozen</b> immediately	Specimen must be delivered to a Virology staff member within 3 hours of phlebotomy and before 4pm	
Hepatitis D Antibody	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Request must be approved by Consultant Microbiologist	3 days
Hepatitis E Antibody	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Request must be approved by Consultant Microbiologist	2-4 weeks
Hereditary Spherocytosis Screen	Department of Clinical Genetics, CHI Crumlin	<b>EDTA</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (5mL) whole blood	Ambient	Arrange with Haematology laboratory MUH before taking specimen. Must be received in Haematology laboratory before 11.00 h to facilitate transport to Referral Laboratory. Only take samples Monday to Thursday. SAMPLE STABILITY/VALIDITY : <72hrs	4 weeks
Herpes simplex virus – PCR	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL) or <b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b> Sterile Container (0.5 mL) <b>Genetical swab</b>	No storage requirements listed	On Consultant Microbiologist request. Call Microbiology Department to confirm swab type	5 days
Herpes simplex virus antibody	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Only referred to Reference Laboratory in exceptional circumstances	3-7 days
Herpes Type 1+2 IgG and IgM	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL) or <b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b>	<b>Refrigerated</b> (+4°C)		4 days
Histamine	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857 (1mL)</b>	Sample must be <b>frozen</b> immediately	No sampling on glass tubes Shake the tube gently by turning over. Whole blood can be stored for 2 hrs at ambient temperature or 12 hrs at +4°C. During this time, centrifuge for 10 minutes at 900g. Aspirate the plasma slowly, to at least 1 cm from the sediment. After an anaphylactic shock, sample 30 to 60 min after the onset of clinical signs (SFAR recommendations)	8 days



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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Histoplasmosis	SouthWest HPA Laboratory, Bristol	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		8 days
HLA antibody screen	National Histocompatibility and Immunogenetics Reference laboratory (NHIRL), IBTS, St James's Street, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Ambient	To be received by NHIRL within 48 hours of specimen collection	7 days
Homocysteine (Adult)	Clinical Biochemistry, Galway University Hospital	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (4mL) whole blood	Sample must be <b>frozen</b> immediately	Sample must be delivered to the laboratory within 60 minutes of collection	7 days
Human Epidermal Growth Factor Receptor 2 (HER2)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately		17 days
Human epididymis protein 4 (HE4)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately		5 days
Human Immunodeficiency (HIV) 1&2 antibody/p24 Antigen	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL) or <b>Plasma</b> <b>PST gel - Ref 367962</b> (3mL)	<b>Refrigerated</b> (+4°C)		1 day
Human Immunodeficiency (HIV) Viral Load – PCR	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be <b>frozen</b> immediately	Specimen must be delivered to a microbiology staff member within 3 hours of phlebotomy	7 days
Human Tlymphocyte Virus (HTLV-1 / 11)	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Only available in specific cases and following approval by the Microbiology staff	3-7 days
Huntington's Disease ( <i>exon 1 of the HTT gene</i> )	Department of Clinical Genetics, CHI Crumlin	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b>	No storage requirements listed	Clinical details must be provided which are consistent with a suspected diagnosis of HD.	Routine 12 weeks Urent 2 weeks
Hydatid antibodies	Hospital for Tropical Diseases, London WCIE 6AU	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Ambient	If viability is required the aspirate should be kept at room temperature and reach us within 24 hours. Available only in very specific circumstances and with prior approval of a Consultant Microbiologist.	
Idiopathic thrombocytopenic Purpura (ITP)	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Bristol	<b>EDTA</b> <b>3x K<sub>2</sub>EDTA (cross match)</b> (6mL) <b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	No storage requirements listed	Prior arrangement with Blood Transfusion Laboratory is essential for immediate referral to Bristol.	
IgD	Immunology Dept, Northern General Hospital, Sheffield	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		6 weeks
IgE (Total)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		7 days

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
IGVH Genes	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (3mL) whole blood	<b>Refrigerated</b> (+4°C)	Sample must be taken before 11.30am only on Mon, Tues, Wed or Thurs.	20 days
Immunofluorescence Biopsies	Haemostasis and Thrombosis Lab, Belfast City Hospital	<b>Tissue</b>	No storage requirements listed	Deliver to the laboratory immediately, with completed request form. Include contact details. Please notify Histopathology GUH at least 24 hrs in advance. Please contact Histology Depaerment for collection cotainer	
Immunoglobulin gene rearrangements ( <i>IgH</i> ) (Blood)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (3mL) whole blood	No storage requirements listed		10-15 days
Immunoglobulin gene rearrangements ( <i>IgH</i> ) (Bone Marrow)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Bone Marrow</b> RPMI (3mL)	No storage requirements listed	Medium is available from Histopathology ext 2564.	10-15 days
Immunoglobulin gene rearrangements ( <i>IgH</i> ) (Fresh Biopsy)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Fresh Biopsy</b>	No storage requirements listed	Please contact Histology Depaerment for collection cotainer	10-15 days
Immunoglobulin gene rearrangements ( <i>IgH</i> ) (Paraffin Sections)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Paraffin embedded tissue block</b>	No storage requirements listed	Please contact Histology Depaerment for collection container	10-15 days
Immunoglobulins IgG / IgA / IgM and Serum Protein Electrophoresis	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed		10 days
Immunophenotyping	Haematology Department, University Hospital Galway	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> or <b>Bone Marrow/ Lymph Node Biopsy</b> RPMI	<b>Refrigerated</b> (+4°C)	Prior arrangement with Consultant Haematologist or SPR. Send non-urgent samples Monday to Wednesday only. Medium is available from Histopathology ext 2564.	2-5 days
Infliximab (Drug Levels & Antibody)	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	Send as soon as possible within 24 hours.	5 days
Influenza A virus	Medical Microbiology, Galway University Hospital	<b>Respiratory Swab</b> <b>UTM-RT Viral Swab - Ref: UTM-RT</b>	No storage requirements listed	Seasonal availability only	2-3 days
Inherited Bone Marrow Failure Syndromes Gene Panel	Bristol Genetics Laboratory, Pathology Sciences , Southmead Hospital , Bristol BS10 5NB , Phone +44 117 414 6174	<b>EDTA Whole Blood</b> <b>Adult: K3 EDTA - Ref 368857</b> (3-4mL) <b>Paediatric: K3 EDTA - Ref 368857</b> (2mL)	<b>Refrigerated</b> (+4°C)	Send as soon as possible within 24 hours. Request forms H/EXT/150 and H/EXT/151	?

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Inhibin A	Northern General Hospital, Sheffield Teaching Hospitals Foundation Trust	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately		4 weeks
Inhibin B	Northern General Hospital, Sheffield Teaching Hospitals Foundation Trust	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately		4 weeks
Insulin	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be <b>frozen</b> immediately	Fasting sample. Must fill bottle to mark. Send immediately to Biochemistry Laboratory or Specimen Reception Mayo University Hospital. Pre-analytical preparation (freezing) required before referral.	7 days
Insulin Like Growth Factor 1 (IGF-1) <i>Somatomedin</i>	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be <b>frozen</b> immediately	Fasting sample.	3 weeks
Insulin Total, serum	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately	<b>Refrigerated</b> (+4°C) C if analysed within 48 hours, otherwise frozen at -20 °C.	3 days
Insulin-like Growth Factor Binding Protein 3 (IGFBP-3)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately		8 days
Interleukin 10 (IL10)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	Sample must be <b>frozen</b> immediately		15 days
Interleukin 2 (IL2)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	Sample must be <b>frozen</b> immediately		15 days
Interleukin 2 Receptor (IL2R)	Eurofins Biomnis France	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (3mL)	Sample must be <b>frozen</b> immediately		15 days
Interleukin 5 (IL5), EDTA plasma (EIA)	Eurofins Biomnis France - Referred in Lyon Sud Hospital	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (3mL)	Sample must be <b>frozen</b> immediately		15 days
Interleukin 6 (IL6)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	No storage requirements listed	Specimen must be received in GUH lab on the day of venepuncture.	Urgent: 2 hours Priority: 3 hours Routine: 4 days
Intraocular Fluids / Corneal Scrapings	Medical Microbiology, Galway University Hospital	<b>Pre-inoculated media</b>	No storage requirements listed	Contact Microbiology Laboratory to collect fresh culture plates and slide for corneal scrapings. Deliver to Laboratory immediately.	3 days

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Iodine	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>White Top Universal -</b> <b>Ref: UNI0003C</b> (10 mL) Early morning urine <b>or If screening for excess</b> <b>24 hour Urine Container</b> <b>Ref: 77.575.401</b> Specify Total Volume or if for Occupational Purposes <b>White Top Universal -</b> <b>Ref: UNI0003C</b> Urine sample at the end of a shift	<b>Refrigerated</b> (+4°C)		7 days
Iron	Eurofins Biomnis Ireland	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (5 mL)	<b>Refrigerated</b> (+4°C)		6 days
Itraconazole	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Biomnis	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Sample must be <b>frozen</b> immediately		13 days
JAK – 2 Exon 12 Mutation	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA</b> <b>3x K3 EDTA - Ref 368857</b> (3mL) whole blood	<b>Refrigerated</b> (+4°C)	Pre authorization with Haematologist/SPR and arrangement with laboratory. Send Monday to Thursday to Haematology for referral. If stored at 4°C may be held overnight or over week end.	8 weeks
JAK – 2 Mutation (Blood)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA</b> <b>3x K3 EDTA - Ref 368857</b> (4mL) whole blood	<b>Refrigerated</b> (+4°C)	Pre authorization with Haematologist/SPR and arrangement with laboratory. Send Monday to Thursday to Haematology for referral. If stored at 4°C may be held overnight or over week end.	10-15 days
JAK – 2 Mutation (Bone Marrow)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Bone Marrow</b> RPMI (9ML)	<b>Refrigerated</b> (+4°C)	Pre authorization with Haematologist/SPR and arrangement with laboratory. Send Monday to Thursday to Haematology for referral. If stored at 4°C may be held overnight or over week end. Medium is available from Histopathology ext 2564.	10-15 days
Ketones (Beta-hydroxybutrate, Acetoacetate, pyruvate)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		Urgent: 2 hours Priority: 3 hours Routine: 4 days
Kirsten rat sarcoma virus (KRAS) (Colorectal Panel)	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Tissue</b>	No storage requirements listed	Please contact Histology Department for collection container. Request form arrange via consultant pathologist.	10 days

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Kirsten rat sarcoma virus (KRAS) Mutation analysis	Haemostasis and Thrombosis Lab, Belfast City Hospital	<b>Tissue</b>	No storage requirements listed	Please contact Histology Department for collection container. Request form arrange via consultant pathologist.	5-10 days
Lamotrigine ( <i>Lamictal</i> ®)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Sample must be <b>frozen</b> immediately		24 days
Lead	Trace Laboratories Moseley, UK via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (5mL) or <b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (4mL)	<b>Refrigerated</b> (+4°C)	Special trace element tubes (sodium heparin) are recommended. The use of vacuum tubes is recommended. In order to avoid the risk of external pollution: Do not sample at the contaminated site. The skin must be washed with disinfectant before sampling. Specimen must be referred immediately after sampling given that the stability of the sample is 14 days. Childhood lead poisoning: caution, all childhood lead blood testing requests must be accompanied by the "Lead poisoning in minor children" sheet downloadable on the site <a href="http://www.biomnis.com">www.biomnis.com</a>	6 days
Lead (Urine)	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (20 mL) or <b>24 hour Urine Container Ref: 77.575.401</b> End of working shift Urine	<b>Refrigerated</b> (+4°C)		8 days
Legionella (serotype 1 to 6) total Abs, screening	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		8 days
Legionella (serotype 1 to 6) total Antibodies, confirmation	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		5 days
Legionella (Sputum/BAL)	Eurofins Biomnis Lyon, France via Eurofins	<b>BAL/Sputum/Puncture fluid</b> <b>White Top Universal - Ref: UNI0003C</b> (500 µL minimum)	<b>Refrigerated</b> (+4°C)		11 days



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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Leptin	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately		4 weeks
Leptospira IgM	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	No storage requirements listed		2-3 weeks
Levetiracetam ( <i>Keppra</i> ®)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Sample must be <b>frozen</b> immediately		24 days
Lipase	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		5 days
Lipoprotein (a) (Lpa)	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL) or <b>Plasma</b> <b>PST gel - Ref:367962</b> (3mL)	<b>Refrigerated</b> (+4°C)		1 day
Listeria monocytogenes	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL) or <b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b> (500 µL minimum)	<b>Refrigerated</b> (+4°C)		6 days
Lupus Anticoagulant Screen	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be <b>frozen</b> immediately	Must be received in lab within 3 hours of phlebotomy for pre-analytical preparation. Samples prepared as per Thrombophilia Screen	5 weeks
Luteinizing hormone (LH)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-2 days
Lymphocyte subsets CD3 (T cell) CD4 (T helper) CD8 (T cytotoxic) CD19 (B cell) CD16/56 (NK cell)	Immunology, Galway University Hospital	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (5mL) whole blood	Ambient	Do not refrigerate. Record time and date of collection on form. Samples must be kept at room temperature, delivered to Immunology GUH within 24 hours	3 days
Lysosomal Enzymes (Plasma and White Cell Enzyme Screen) ( <i>Screen for Hurler's</i> )	Willink Unit, Royal Manchester Children's Hospital	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (4mL) whole blood	Ambient	Contact Haematology laboratory MUH prior to specimen collection. Referred Mon-Wed only, external request form to be completed	
M.P.L. Exon 10 Mutation	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA</b> <b>2x K3 EDTA - Ref 368857</b> (4mL) whole blood	Ambient	Send Monday to Wednesday before 11.00am.	20 days

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Magnesium (Urine)	Clinical Biochemistry, Galway University Hospital	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (non acidified)	<b>Refrigerated</b> (+4°C)		1 day
Malaria (Confirmation)	Malaria reference laboratory (Malaria RL), London School of Hygiene and Tropical Medicine, Keppel Street, London, WC1E 7HT	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (4mL) whole blood	<b>Refrigerated</b> (+4°C)	Page 1 of the form should be completed by the requesting clinician while page 2 is completed by the medical scientist. Referral laboratory is open 9am to 5pm Monday to Friday excluding English Bank Holiday	1-4 days
Manganese	Trace Laboratories Moseley, UK via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL)	<b>Refrigerated</b> (+4°C)		10 days
Measles IgM / IgG antibody	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		1-2 weeks
MECP2 gene analysis	All Wales Medical Genetics Service, Institute of Medical Genetics, University Hospital of Wales Cardiff and Vale LHB via biomnis	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (5mL) whole blood	No storage requirements listed		6 weeks
Meningococcal antibodies <i>Neisseria meningitides</i>	Irish Meningitis and Sepsis Reference Laboratory (IMsRL), CHI Temple St	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b>	<b>Refrigerated</b> (+4°C)	Sample to be handed to Microbiology MUH staff member - slopes to be prepared by micro MUH	
Meningococcal PCR - CSF <i>Neisseria meningitides</i>	Irish Meningitis and Sepsis Reference Laboratory (IMsRL), CHI Temple St	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b>	<b>Refrigerated</b> (+4°C)	Sample to be handed to Microbiology MUH staff member	
Meningococcal PCR - EDTA <i>Neisseria meningitides</i>	Irish Meningitis and Sepsis Reference Laboratory (IMsRL), CHI Temple St	<b>EDTA Plasma</b> <b>K3EDTA - Ref: 368857</b>	<b>Refrigerated</b> (+4°C)	Sample to be handed to Microbiology MUH staff member	
Mercury	Trace Laboratories Moseley, UK via Eurofins	<b>EDTA</b> <b>4x K3 EDTA - Ref 368857</b> (5mL) whole blood or <b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b>	<b>Refrigerated</b> (+4°C)		10 days
Metanephrine - free ( <i>Methoxylated derivatives of Catecholamins</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>Lithium Heparin Whole Blood</b> <b>2x Lithium heparin (non-gel) - Ref: 367883</b> (2mL)	Sample must be <b>frozen</b> immediately	Fasting sample	6 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Metformin (Glucophage®)	Eurofins Biomnis France - Referred in Lyon Sud Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+4°C)		13 days
Methotrexate (Maxtrex)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	No storage requirements listed	State date/time of sample collection clearly on request form. Measured on patients on highdose Methotrexate. Contact Lab in advance and state time of infusion on request form.	1 day
Methylmalonic Acid (Serum)	Labor Volkmann via Biomnis	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+4°C)		6 days
Methylmalonic Acid (Urine)	Labor Volkmann via Biomnis	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401 (15mL aliquot required)</b> or Early morning urine (child) <b>White Top Universal - Ref: UNI0003C</b>	Sample must be <b>frozen</b> immediately		3 weeks
Microalbumin (Urine Albumin)	Roscommon University Hospital	<b>Urine</b> <b>Urine Z tube (Urinalysis)</b> <b>Reference: 368501</b>	No storage requirements listed	Date of collection must be stated on the request form	1 day from receipt in RUH
Micropolyspora faenii (Farmer's Lung confirmation)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		7 days
Mirtazapine	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be <b>frozen</b> immediately	Always draw blood at the same time before another administration 1 individual aliquot for this analysis. Enclose the specific clinical information form (R13-INTGB : Medication quantification) The following examinations can be performed on the same sample: Citalopram; Duloxetine; Fluoxetine; Fluvoxamine; Mirtazapine; Paroxetine; Sertraline; Venlafaxine.	9 days
Molybdenum	Trace Laboratories Moseley, UK via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (2mL)	<b>Refrigerated</b> (+4°C)		10 days
Molybdenum (Urine)	Trace Laboratories Moseley, UK via Eurofins	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (2mL)	<b>Refrigerated</b> (+4°C)		10 days
Monoclonal Antibody Interference	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		5 days
MTHFR Mutation c677T	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA</b> <b>K3 EDTA - Ref 368857</b> (5mL) whole blood	Ambient temperature or 4°C (if transport time >24 hrs)		12

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Mucopolysaccharidosis (MPS) Enzyme Assay ( <i>α</i> -iduronidase, Iduronate sulphatase, Heparan sulphamidase, <i>α</i> -N-acetylglucosaminidase, Acetyl-CoA:α-glucosaminide N-acetyltransferase, Galactose-6-sulphatase, β-galactosidase, Arylsulphatase B, β-glucuronidase & Multiple sulphatases)	Willink Unit, Royal Manchester Children's Hospital	<b>EDTA Plasma</b> <b>9x K<sub>3</sub> EDTA - Ref 368857</b> (5mL)	To reach the laboratory within 72 hours of sampling.	Enzymology for MPS disorders is generally performed after an initial MPS urine screen shows an abnormal result unless there is a previous family history of a specific disorder, in these cases enzymology can be performed prior to urine analysis.	3 weeks
Mucopolysaccharidosis (MPS) Screen (2-D electrophoresis of GAGs, Oligosaccharide screen & Quantitative sialic acid)	Willink Unit, Royal Manchester Children's Hospital	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (10mL) Fresh Urine	To reach the laboratory within 72 hours of sampling.	To reach the laboratory within 72 hours of sampling. All samples must be accompanied by relevant clinical details. Enzyme analysis will normally only be performed when an abnormal mucopolysaccharide pattern has been identified in urine or there is family history of a specific disorder.	3-4 weeks
Mumps IgG / IgM antibody	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	No storage requirements listed		
Muscle Biopsies	Haemostasis and Thrombosis Lab, Belfast City Hospital	<b>Fresh tissue</b>	Immediate dispatch to laboratory where tissue pieces are frozen / formalin fixed.	Please notify the Histopathology Department (ext. 2564) at least 24 hours in advance and contact for collection container.	
Mycobacteria Testing (BAL)	Medical Microbiology, Galway University Hospital	<b>BAL/Sputa</b> <b>White Top Universal - Ref: UNI0003C</b> Sterile Container	<b>Refrigerated</b> (+4°C)		6-7 weeks
Mycobacteria Testing (Blood Culture/Bone Marrow)	Medical Microbiology, Galway University Hospital	<b>Blood Culture / Bone Marrow aspirate</b> <b>BD BACTEC Myco/F Lytic Culture vials. REF: 442288</b>	<b>Refrigerated</b> (+4°C)	Contact Microbiology for collection containers	6-7 weeks
Mycobacteria Testing (Fluid/tissue)	Medical Microbiology, Galway University Hospital	<b>Fluid/Tissue</b> <b>White Top Universal - Ref: UNI0003C</b> Sterile Container container <b>Include clotted material</b>	<b>Refrigerated</b> (+4°C)	• Include clotted material	6-7 weeks

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Mycobacteria Testing (Urine)	Medical Microbiology, Galway University Hospital	<b>Urine</b> <b>100mL Universal Containers - Ref: 75.562.105</b> <b>Early morning urine</b>	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>• Prior arrangement only - contact the Microbiology laboratory for the Microbiology container.</li> <li>• The mycobacteria culture system is not validated for processing urine specimens.</li> </ul>	6-7 weeks
Mycology	Medical Microbiology, Galway University Hospital	<b>Skin swab</b> <b>Amies Clear (M40-A2) Medium</b> <b>Transport swab Ref:TS/5-17</b> <b>Tissue / pus</b> <b>White Top Universal - Ref: UNI0003C</b> Sterile container <b>Hair/ Nail clippings /Skin scrapings</b> <b>Dermamark 2000 Fungal Envelopes - Ref: DMK202</b>	<b>Refrigerated</b> (+4°C)		5-6 weeks
Mycophenolate ( <i>Cellcept®</i> )	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (4mL)	<b>Refrigerated</b> (+4°C)	Mandatory clinical information sheet available in Specimen Reception: - R13: for unic drug level assesment - R31: for Calculations of AUC under the curve (AUC). R31 Form MUST accompany one or several files. It must be completed entirely. The calculation of the area under the curve (AUC) is used for the therapeutic adjustment of CELLCEPT mycophenolate: kinetics of CELLCEPT over several sampling times after taking the drug must be performed.  Each assay is the subject of a separate file in which the dates and times of sampling and setting must be well documented to identify the different times T0, T20, T30, T60, T120, T180.	5 days
Mycoplasma genitalium (PCR)	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> First micturation urine (no preservatives) <b>Anogenital swab</b>	<b>Refrigerated</b> (+4°C)	Swab samples require the use of a virus transport medium supplied upon request.	1-2 weeks
Mycoplasma pneumoniae (BAL)	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>BAL</b> <b>White Top Universal - Ref: UNI0003C</b> (0.5 mL minimum)	<b>Refrigerated</b> (+4°C)		
Mycoplasma pneumoniae (CSF)	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b> (1mL minimum)	Sample must be <b>frozen</b> immediately		
Mycoplasma pneumoniae antibody	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)		1-2 weeks



## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Myeloma Screen (Screen includes: FBC, Blood film, ESR, Serum Electrophoresis with immunofixation, Serum for Light chains and Urine for Bence Jones Protein)		Refer to individual tests for specimen requirements	No storage requirements listed		
Myoglobin	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)		2 days
Myotonic Dystrophy type 2 (ZNF9 Gene); Molecular diagnosis of PROMM	All Wales Medical Genetics Service, Institute of Medical Genetics, University Hospital of Wales Cardiff and Vale LHB via biomnis	<b>Heparin Whole Blood</b> <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL)	No storage requirements listed		
Neonatal Alloimmune Thrombocytopenia (NAITP) <i>Platelet antibody screen</i>	NHSBT Histocompatibility and Immunogenetic Department Blood and Transplant, 500 North Bristol Park, North Way, Filton, BRISTOL via NHIRL IBTS	<b>EDTA</b> <b>Mother:</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL) + 10-20mL clotted <b>Father:</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL) <b>Neonate: K<sub>2</sub>EDTA (cross match)</b> (1mL)	No storage requirements listed	Discuss with IBTS Consultant /Registrar. Use specific request form from IBTS, contact the Blood transfusion Laboratory MUH	21 days
Neonatal and Pediatric Haemoglobinopathy Screen ( <i>Hb F, Hb A<sub>2</sub>, Hb H, Hb S, sickle cell screen, thalassaemia screen, haemoglobin electrophoresis</i> )	Crumlin	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (5mL)	<b>Refrigerated</b> (+4°C)	Please provide indication on ethnic origin of patient in clinical details section. Include most recent FBC and Ferritin results for non-neonatal screens	14 days
Neurofibromatosis type 1 Gene (NF1G)	All Wales Medical Genetics Service, Institute of Medical Genetics, University Hospital of Wales Cardiff and Vale LHB via biomnis	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (5mL)	No storage requirements listed		
Neuron Specific Enolase (NSE) (Biological Fluid)	Eurofins Biomnis Paris, France via Eurofins	<b>Biological Fluid</b> <b>White Top Universal - Ref: UNI0003C</b> (1 mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>Not to be performed on haemolysed sample</li> <li>ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.</li> </ul>	2 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Neuron Specific Enolase (NSE) (Serum)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL) Non haemolysed serum	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>Centrifuge and settle within one hour following sampling</li> <li>Sample to be frozen within 1 hour. Home sampling is not advisable.</li> <li>Separator gel tubes must be centrifuged and the supernatant must decanted before the freezing step</li> <li>ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.</li> </ul>	2 days
Neutrophil Function Test ( <i>Oxidative Burst Test</i> )	Immunology, Galway University Hospital	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Ambient	<ul style="list-style-type: none"> <li>Control sample must also be taken.</li> <li>Samples must be delivered to lab within 24 hours.</li> <li>Comment: Testing must be first discussed with immunology medical/scientific staff</li> </ul>	2 days
Newcastle work-up ( <i>Work up includes: Glucose, Ammonia, Lactate, Cortisol, Growth Hormone, Insulin, C-peptide, Quantitative Amino Acids, Acylcarnitine, Organic Acids, Beta-OH-Butyrate</i> )		Refer to individual tests for test requirements	No storage requirements listed		
Nickel	Trace Laboratories Moseley, UK via Eurofins	<b>Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (10 mL) end shift Urine sample	Refrigerated (+4°C)		20 days
Norovirus (Faeces)	Virology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b>	Refrigerated (+4°C)	Tested only after consulting IPC or Microbiology teams.	<b>1-2 weeks</b>

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
NPM1 gene	Centre for Laboratory Medicine & Molecular Pathology, St James' Hospital, Dublin 8, D01 NHY1	<b>Bone Marrow</b> RPMI (9mL)	<b>Refrigerated</b> (+4°C)	Sample must be taken before 11:30am only on Mon, Tues, Wed or Thurs. Medium is available from Histopathology ext 2564.	<b>10-15 days</b>
Oestradiol	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed		Urgent: 1 hour. Priority: 1 working day. Routine : 2 working days
Oestrone	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Refridgerate		2 weeks
Oligoclonal bands and CSF IgG Index	Immunology, Galway University Hospital	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C</b> (0.5mL minimum) and <b>Serum SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Sample must be received in the GUH Laboratory within 7 days of collection.	3 weeks
Organic Acids	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (10mL) First early morning Urine (Fasting )	Sample must be <b>frozen</b> immediately	Please note: It is critical to record date and time sample taken and clinical details	
Osmotic Fragility	Haematology Department, University Hospital Galway	<b>Heparin Whole Blood</b> <b>2x Lithium heparin (non-gel) - Ref: 367883</b> (5mL) (1 to be used as a control specimen)	No storage requirements listed	<ul style="list-style-type: none"> <li>• Authorisation by Haematology SPR and arrangement with laboratory.</li> <li>• The specimen must reach the laboratory before 11:00 on day of analysis.</li> </ul>	2 days
Ova / Cysts / Parasites	Medical Microbiology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b>	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>• Cryptosporidium and Giardia detection by molecular technique.</li> <li>• Other ova and parasites are rarely detected in faeces.</li> <li>• Examination for other O&amp;P is only performed when specific additional parasite is specified on the request form, accompanied by relevant clinical information. Delay &gt; 2 h refrigerate @ 2-8OC. Ensure sample is in a leak proof laboratory container</li> </ul>	3 days for Cryptosporidium and Giardia molecular detection. 1 week for parasite concentration.

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Oxalic Acid, urine	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> <b>Acidified</b> (2x tubes)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>The following is essential for the oxalic acid assay:</li> <li>- 24-hour urine collection, keep refrigerated</li> <li>- indication of diuresis volume</li> <li>- acidification of urine by the sampling laboratory by adding hydrochloric acid (HCl) to obtain a urinary pH between 2 and 3. In practice, urine can be acidified as follows:</li> <li>- homogenise the entire diuresis very vigorously</li> <li>- take a urine sample volume of 50 mL</li> <li>- acidify this urine sample with the help of 6N hydrochloric acid</li> <li>- homogenise the urine well after each addition of HCl before each pH testing</li> <li>- measure pH with the help of pH paper or a pH meter.</li> </ul>	5 days
Oxidative Burst Test	Haematology Laboratory, CHI Crumlin	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Ambient	<p>Please deliver to Laboratory immediately (must be tested within 6 hours)</p> <p>Assay must be pre-booked with Haematology Lab on ext6432 (01-4096432)</p>	1 week
P1NP - Intact N-Terminal Propeptide of Type I Procollagen	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.</li> </ul>	3 days
Parathormone Related Protein (PTH-RP)	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K3EDTA (Aprotinine) - Ref: 361017</b> (1mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>Sample on special tube (EDTA + Aprotinin) supplied on request from Biochemistry.</li> <li>Centrifuge at +4C and Freeze the plasma immediately.</li> <li>Alert and hand directly to laboratory specimen reception staff</li> </ul>	2 weeks
Parathyroid Hormone (PTH)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Ensure sample collection, delivery to Main Specimen Reception Laboratory before 11am (Frozen if not same day delivery to GUH)	N/A	1 day
Paroxysmal Nocturnal Haemoglobinuria (PNH) Screening	Haematology Department, University Hospital Galway	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref: 368857</b> (3mL)	No storage requirements listed	<ul style="list-style-type: none"> <li>Requests for flow cytometry tests should only be received Monday –Thursday between 9am and 5pm unless prior arrangements have been made with Flow Cytometry.</li> <li>Samples must be received within 24 hours.</li> <li>Full clinical information and reason for request must accompany specimen.</li> </ul>	3-5 days
Parvovirus B19, IgG and IgM <i>Erythrovirus B19</i>	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	N/A	2 days

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Paternal Phenotyping	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		5 days
PHD2, HIF 2 $\alpha$ , , VHL Genes (Erythrocytosis Screen)	Haemostasis and Thrombosis Lab, Belfast City Hospital	<b>EDTA Whole Blood</b> <b>2x K<sub>3</sub> EDTA - Ref 368857</b> (5mL)	Ambient	Must reach Referral Lab within 24 hours of taking sample. Contact Haematology Lab MUH	4 weeks
Phenobarbital ( <i>Alepsal</i> ®)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)		
Phenothiazine ( <i>Dibenzoazepine</i> )	Eurofins Biomnis France - Referred in Lyon Sud Hospital	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>Do not use tubes with separator gel.</li> <li><b>Form Required</b> - Enclose clinical information form - available from Specimen Reception.</li> </ul>	10 days
Phenylalanine ( <i>Tyrosine</i> )	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	No storage requirements listed	<ul style="list-style-type: none"> <li>Request form MUST include clinical details. Referring labs: separate prior to dispatch to CHI at Temple Street</li> </ul>	2-3 days
Phenylalanine (Dried blood Spot card)	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Dried blood spot card</b> - Sample Required: 2 full circles of blood on card	No storage requirements listed	<ul style="list-style-type: none"> <li>Air dry for 2 hrs.</li> <li>Avoid heat &amp; humidity.</li> <li>Request form MUST include clinical details.</li> </ul>	3-8 days
Phenytoin ( <i>Epanutin</i> )	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	<ul style="list-style-type: none"> <li>Take specimen immediately before next dose (trough specimen)</li> </ul>	1 week
Phosphate (Urine)	Clinical Biochemistry, Galway University Hospital	<b>Urine</b> <b>24 hour Urine Container</b> <b>Ref: 77.575.401</b>	No storage requirements listed	<ul style="list-style-type: none"> <li>24 hour urine collection.</li> <li>Used in conjunction with serum inorganic phosphate to calculate IPeGFR.</li> </ul>	1 day
Phytanic Acid	Eurofins Biomnis France - Referred in "Groupement Hospitalier Est" in Lyon	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (2mL)	Sample must be <b>frozen</b> immediately	Sample to be frozen within 1 hour.	2 weeks
Pinworm	Medical Microbiology, Galway University Hospital	<b>Slide</b> Apply sellotape to anal area, fix to slide, send to Laboratory	Delay > 2 h refrigerate @ 2-8C	N/A	1 week
Plasma Viscosity	Haematology, University Hospital Galway	<b>EDTA Whole Blood</b> <b>3x K<sub>3</sub> EDTA - Ref 368857</b> (3mL)	No storage requirements listed	<ul style="list-style-type: none"> <li>Must be received in laboratory within 2 hours of phlebotomy</li> </ul>	1 day



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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Platelet Aggregation Studies	Haematology, University Hospital Galway	<b>Citrated Plasma</b> <b>6x Sodium Citrate - ref: 363095</b> (2.7ml)	No storage requirements listed	<ul style="list-style-type: none"> <li>• Prior authorization by Consultant Haematologist or SPR.</li> <li>• Arrange with Coagulation laboratory before taking specimen.</li> <li>• Patient must not take any anti-platelet medications for 1 week prior to test (incl. aspirin, NSAIDA, Clopidogrel/plavix, cough suppressants).</li> <li>• <b>Discard the first specimen when obtaining blood from patient as there may be some platelet activation present which will influence the test results.</b></li> <li>• Specimens must reach the Coagulation laboratory no later than 11:00 on the day of analysis. • Must fill bottles to mark. Please supply samples from a normal control in conjunction with the test specimens. (See Special Requirement Information)</li> </ul>	Assay performed on day of appointment
Platelet Antibody	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Bristol	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	No storage requirements listed		
Platelet Antigen Typing	IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	No storage requirements listed		
Platelet Refractoriness <i>HLA-A and -B</i>	National Histocompatibility and Immunogenetics Reference laboratory (NHIRL), IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	To be received by NHIRL within 48 hours of specimen collection	7 days
Pneumococcal Total IgG antibodies ( <i>Streptococcus pneumoniae</i> )	Immunology Dept, St James Hospital, Dublin	<b>Serum</b> <b>Serum non gel - Ref:367837</b> (2mL)	Separate and Refrigerate at 4C	<ul style="list-style-type: none"> <li>• Where External Institutions cannot guarantee immediate delivery, samples must be centrifuged, separated and stored at 4°C.</li> <li>• Samples can then be transported, as soon as possible, to St. James's Hospital for processing.</li> </ul>	21 days
Pneumocystis jirovecii investigation	Medical Microbiology, Galway University Hospital	<b>BAL (or induced sputum only)</b> <b>White Top Universal - Ref: UNI0003C</b>	<b>Refrigerated</b> (+4°C)		2 weeks
Poliovirus Total Antibody ( <i>Neutrilisation test</i> )	Eurofins Biomnis France	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)	N/A	15 days
Porphyryns (Faeces)	Biochemistry Laboratory, St James's Hospital	<b>Blue top Universal Container with spoon</b> 10g Formed faeces in Universal Container. Protect from light.	Refrigerated (+4°C) * Refrigerate sample for 24 hours, if longer delay is expected, please freeze	• <b>Protect from light</b>	7-10 working days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Porphyrins (Plasma)	Biochemistry Laboratory, St James's Hospital	<b>EDTA Plasma</b> <b>2x K3 EDTA - Ref: 368857 (4 mL)</b> or <b>Plasma</b> <b>Lithium Heparin - Ref: 367883 (2 sample x 4ml)</b> Protect from light.	If samples can't be sent to laboratory immediately please separate sample and freeze.	<ul style="list-style-type: none"> <li>• <b>Protect from light.</b></li> <li>• Send to lab without delay.</li> <li>• If samples can't be sent to laboratory immediately please separate sample and freeze. Form Required - Contact MUH Specimen Reception.</li> </ul>	5-7 working days
Porphyrins (Red Blood Cell)	Biochemistry Laboratory, St James's Hospital	<b>EDTA Whole Blood</b> <b>2x K3 EDTA - Ref 368857 (3mL)</b>	No storage requirements listed	<ul style="list-style-type: none"> <li>• Whole blood.</li> <li>• Protect from light.</li> <li>• If a delay is expected please measure and send the Hct (haematocrit) value, as this may be required by the Porphrin laboratory.</li> <li>• Refrigerate sample for up to 24 hours, but if greater delay is expected (over weekend), freeze sample, send frozen ensuring the Hct is available.</li> <li>• <b>Form Required</b> - Contact MUH Specimen Reception.</li> <li>• If an Acute Attack is suspected, please send a random urine sample immediately to the Porphyrin laboratory. During 9-5 Monday to Friday please contact the Porphyrin laboratory at 01-4162058 to inform staff of sample. Out of hours please contact the Biochemistry Department on-call staff member.</li> </ul>	5 -7 working days qualitative. If positive, further testing of 7-14 working days for quantitative results
Porphyrins (Urine)	Biochemistry Laboratory, St James's Hospital	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C (20ml)</b> (protected from light) (Ensure Urinary Creatinine is greater than 2 mmol/L)	No storage requirements listed	<ul style="list-style-type: none"> <li>• Refrigerate sample for upto 24 hours, but if greater delay is expected (over weekend), take aliquote and freeze.</li> <li>• <b>Form Required</b> - Contact MUH Specimen Reception.</li> <li>• If an Acute Attack is suspected, please send a random urine sample immediately to the Porphyrin laboratory. During 9-5 Monday to Friday please contact the Porphyrin laboratory at 01-4162058 to inform staff of sample. Out of hours please contact the Biochemistry Department on-call staff member.</li> <li>• Analysis of ALA is no longer available routinely. Urine PBG is the key marker for diagnosing acute porphyria attacks.</li> </ul>	7 - 10 days
Prader Willi / Angleman Syndrome (15q11-13 Methylation), blood (FISH)	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>Lithium heparin (non-gel) - Ref: 367883 (5mL)</b>	No storage requirements listed		
Prealbumin <i>Transthyretin</i>	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954 (1mL)</b>	<b>Refrigerated</b> (+4°C)	• ALWAYS specify patients name and gender	2 days
ProBNP <i>NT-ProBNP</i>	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954 (7mL)</b>	No storage requirements listed		Priority: 1 working day. Routine: 2 working days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Procollagen III	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be <b>frozen</b> immediately	• Centrifuge, Decant, freeze rapidly	2 weeks (if dilution/control needed - TAT 4 weeks)
Progesterone	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	N/A	Priority: 1 working day. Routine: 4 working days
Proinsulin	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL) Do not use 10mL tube	Sample must be <b>frozen</b> immediately	• Do not use 10ml tube	7 days
Prolactin	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	N/A	Priority: 1 working day. Routine: 2 working days
Prostate-specific antigen (PSA) Free	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be <b>frozen</b> immediately	Centrifuge and freeze immediately ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.	2 days
Protein C	Haematology, University Hospital Galway	<b>Citrated Plasma</b> <b>Sodium Citrate - ref: 363095</b> (2.7ml)	No storage requirements listed	• Requests should be received in the laboratory within 2 hours of phlebotomy. • Details of anticoagulant therapy required. Must fill bottle to mark.	5 weeks
Protein S and free protein S	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>Sodium Citrate - ref: 363095</b> (2.7ml)	No storage requirements listed	• Requests should be received in the laboratory within 2 hours of phlebotomy. Must fill bottle to mark. Details of anticoagulant therapy required.	5 weeks
Prothrombin Gene Mutation analysis	Haematology, St. James's Hospital, Dublin	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref: 368857</b>	<b>Refrigerated</b> (+4°C)	Samples from St James's Hospital must be received in the National Coagulation Laboratory, Centre for Laboratory Medicine and Molecular Pathology, by 4pm Monday - Friday.  1) Sample must be <3 days old on receipt in Referral Laboratory 2) National Coagulation Laboratory Request form (H/EXT/149) must be completed. Consent form H/EXT/148 must also be sent to the doctor with the request form  INVESTIGATION OF PROTHROMBIN GENE MUTATION NOT INDICATED FOR MATERNITY PATIENTS AS DETAILED BY DR RUTH GILMORE. FORWARD COPY OF CORRESPONDENCE FROM DR GILMORE TO REQUESTING CONSULTANT (H/EXT/136).	8 weeks

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Quantiferon TB Test	Microbiology, Mater Misericordiae University Hospital	<b>Blood</b> <b>Quantiferon TB Gold kit - Ref: 622222</b>	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>Special blood kit and request form required, available from Microbiology Laboratory Mayo University Hospital.</li> <li>Incubated in MUH for 16-24 hours and spun before sending to mater.</li> </ul>	<2 days urgent 3-4 days routine
Quantification of Feto-Maternal Haemorrhage (FMH)	Coombe Women and Infant's University Hospital (CWIUH) Cork Street, Dublin 8	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	No storage requirements listed	6 ml EDTA original maternal sample taken within 2 hours of a normal delivery or sensitizing event Follow-up 6ml EDTA maternal sample taken 72 hours after Anti-D Ig injection if given IM or taken 48 hours after Anti-D Ig injection if given IV	3 days
Rapid FISH, Trisomy screening (13,18,21, X and Y), AF	Eurofins Biomnis Lyon, France via Eurofins	<b>Amniotic Fluid</b> <b>White Top Universal - Ref: UNI0003C</b> (3mL)	No storage requirements listed		6 days
Red Cell Folate	Haematology, University Hospital Galway	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref: 368857</b> (3mL) (1.0 mL Paediatric tubes are available).	No storage requirements listed	<ul style="list-style-type: none"> <li>Requests should be received in the laboratory within 8 hours of phlebotomy</li> </ul>	3 weeks
Red cell polyagglutination	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient		5 days
Reducing Sugars <i>Reducing Substances</i>	Eurofins Biomnis Paris, France via Eurofins	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> (20g minimum)	Sample must be <b>frozen</b> immediately		7 days
Renin (Direct)	Biochemistry Laboratory, St James's Hospital	<b>EDTA Plasma</b> <b>2x K<sub>3</sub> EDTA - Ref 368857</b> (4mL)	Sample must be <b>frozen</b> immediately	Please indicate on request for Renin whether the patient is erect or supine (standing or lying down) whilst the blood is being taken. This will aid clinical interpretation of results. Whole blood EDTA samples should be sent to the lab as soon as possible after specimen collection. Do not refrigerate these samples or do not send them on ice.  Morning sample is desirable as Renin is affected by diurnal variation. External users subject to service level agreement. Contact laboratory for further information.	10 days
Retinol Binding Protein (RBP)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	N/A	2 days
Reverse T3	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>Attach the thyroid evaluation results.</li> <li>Attach the clinical data.</li> <li>1 individual aliquot for this analysis.</li> </ul>	1 month
RHCE Variants Genotype	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (≥3mL)	Ambient		21 days

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
RhD Blood Group, Anomaly Investigation (Serological) Cord/Neonate Only	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL) Cord Blood Sample	Ambient	Cord Blood Sample	1 day
RHD/RHCE Genotype	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (≥3mL)	Ambient		14 days
Rheumatoid Factor IgM	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	• Requests for Rheumatoid Factor will also be tested for Anti-CCP	5 days
Rickettsioses (R. conorii, R. typhi)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	• Do not use 10ml serum tube	3 days
Ristocetin CoFactor (RiCof)	Haematology, University Hospital Galway	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	No storage requirements listed	• Prior authorization by Consultant Haematologist or SPR. • Arrange with coagulation laboratory before taking specimen. • Must fill bottles to mark.	4 weeks
Rubella IgG Antibody	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)		2 days
Rubella IgM Antibody	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)		2 days
Schistosomiasis - confirmation ( <i>Bilharzia</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL) Do not use 10mL tube	<b>Refrigerated</b> (+4°C)		5 days
Schistosomiasis - screening ( <i>Bilharzia</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL) Do not use 10mL tube	<b>Refrigerated</b> (+4°C)	If positive, the confirmation test is automatically performed.	4 days
Schistosomiasis (Urine) ( <i>Schistosoma haematobium</i> )	Medical Microbiology, Galway University Hospital	<b>Urine</b> <b>(On patients after recent travel to endemic area)</b> <b>White Top Universal - Ref: UNI0003C</b> (Volume >10mL) The urine must be obtained between 10:00-14:00 on the day of testing.	<b>Refrigerated</b> (+4°C)	• The urine must be obtained between 10:00-14:00 on the day of testing). • Delay > 2 h refrigerate @ 2-8°C. • On patients after recent travel to endemic area.	1 day



## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Selenium	Trace Laboratories Moseley, UK via Eurofins	<b>Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Urine</b> White Top Universal - Ref: UNI0003C (20 mL) random Urine sample	<b>Refrigerated</b> (+4°C)		10 days
Selenium (Blood)	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>Lithium heparin (non-gel) -</b> <b>Ref: 367883</b> (2mL)	<b>Refrigerated</b> (+4°C)		1 week
Serotonin	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>2x Lithium heparin (non-gel) -</b> <b>Ref: 367883</b> (2mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>Individual aliquot for this analysis.</li> <li>Sample to be frozen within 1 hour. Home sampling is not advisable.</li> <li>DIET: in the 48 hours preceding the sample, avoid foods or drinks rich in tryptophan (essential amino acid constituting serotonin): oily fish, poultry livers, brown rice, dairy products, bananas, chocolate / cocoa, dried fruits (nuts , almond, cashew nuts, dates), mango, avocado, tomato, plum, kiwi, pineapple, shellfish, beans and legumes, pumpkin seed</li> <li>Note that taking antidepressants such as IRRS (serotonin reuptake inhibitors) may decrease the basal level of serotonin.</li> </ul>	4 days
Sex Hormone Binding Globulin (SHBG)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	<b>• Female – only analysed where testosterone &gt;1.2nmol/L.</b>	Priority:1 working day. Routine: 2 working days
Sex Hormone Binding Globulin (SHBG)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	• ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.	3 days
Single Nuclear Polymorphism (SNP) Microarray	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>Sodium Heparin - Ref: 3678676</b> (5mL)	No storage requirements listed		
Sirolimus (Rapamune®)	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	<b>Refrigerated</b> (+4°C)	Residual level sample (just before administration) Enclose the specific clinical information form (R13-INTGB : Medication quantification)	
Sodium Valproate (Epilim)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	Take specimen immediately before next dose (trough specimen)	7 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Squamous Cell Carcinoma (SCC) TA4 Antigen	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>Not to be preformed on a haemolysed sample.</li> <li>ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.</li> </ul>	2 days
Steroid Profile (urine)	ViaPath via Biomnis	<b>Urine</b> <b>24 hour Urine Container</b> <b>Ref: 77.575.401</b> <i>Laboratory: 50 mL 24hr Urine collection</i>	Sample must be <b>frozen</b> immediately		3 weeks
Stone Analysis	Eurofins Biomnis Lyon, France via Eurofins	<b>Calculus (stones)</b>	Send the entire calculus, previously washed and dried in a sterile container containing no compound (no borate in particular)	Attach the specific clinical information sheet (R54 : gallstones, salivary, other) attached R32-INTGB urinary tract lithiasis) Please contact Histology Department for collection container	14 days
Sural Nerve Biopsies	Histopathology Department, Galway University Hospital	<b>Fresh tissue</b>	Osmicated/ formalin fixed.	<ul style="list-style-type: none"> <li>Immediate dispatch to laboratory where tissue pieces are osmicated/formalin fixed. These should be booked with the Consultant Histopathologist. Please notify the department at least 24 hours in advance.</li> <li>Place the biopsy in a fully labelled, suitable sized container in saline moistened gauze (not drenched), and deliver to the laboratory immediately with completed request form. Please contact Histology Department for collection container</li> </ul>	Histological diagnosis
Syphilis (Treponema pallidum) antibodies	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	N/A	2-3 days
T3 (Free)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.</li> </ul>	2 days
T3 (Total)	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	<ul style="list-style-type: none"> <li>Assay only available by request by prior agreement with GUH Chemical Pathologists</li> </ul>	1 week
Tacrolimus (Advagraf / Prograf)	Clinical Biochemistry, Galway University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (4mL)	No storage requirements listed	<ul style="list-style-type: none"> <li>Collect sample pre-dose.</li> <li>State date/time of sample collections clearly on request form</li> </ul>	1 week

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
TCR gene Rearrangement	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref: 368857</b> (3ml) <b>Bone marrow</b> RPML (3mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>Slides and Immunophenotyping / histology report required.</li> <li>All samples for molecular testing should arrive in the laboratory as soon as possible post collection or if appropriate, refrigerated at 4 °C until dispatched. Medium is available from Histopathology ext 2564.</li> </ul>	20 days
Testosterone	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL) Collected between 8-10am	No storage requirements listed	<ul style="list-style-type: none"> <li>Collect sample between 08:00-10:00am</li> </ul>	Priority:1 working day. Routine: 2 working days
Tetanus Toxoid IgG Antibodies	Immunology Dept, St James Hospital, Dublin	<b>Serum</b> <b>Serum non gel - Ref:367837</b> (5mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>As this assay measures a patient's ability to respond to specific bacterial antigens via a thymus-dependant response, all requests for Specific Response to Tetanus Toxoid (IgG) will also have a Pneumococcal Capsular Polysaccharide (PCP) (Total IgG and IgG2) assay performed.</li> <li>Where External Institutions cannot guarantee immediate delivery, samples must be centrifuged, separated and stored at 4°C.</li> <li>Samples can then be transported, as soon as possible, to St. James's Hospital for processing.</li> </ul>	21 days
Thallium (Plasma)	Trace Laboratories Moseley, UK via Eurofins	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (2mL)	<b>Refrigerated</b> (+4°C)	N/A	3 weeks
Thallium (Urine)	Trace Laboratories Moseley, UK via Eurofins	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (5mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>T9 : Urine flasks 70 ml to be used</li> </ul>	3 weeks
Theophylline <i>Aminophylline</i>	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	No storage requirements listed	<ul style="list-style-type: none"> <li>Take specimen immediately before next dose (trough specimen)</li> </ul>	1 week
Thiocyanate <i>(Cyanide)</i>	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)	Collect before administering the treatment. Specify the clinical context.	2 weeks
Thiopurine methyl transferase (TPMT)	Birmingham City Hospital via Biomnis	<b>Heparin Whole Blood</b> <b>Lithium heparin (non-gel) - Ref: 367883</b> (5 mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>Collect samples from Monday to Wednesday</li> <li>To be referred on the day of sample collection. <b>Contact MUH Specimen Reception in advance of sampling.</b></li> <li>Do not collect prior to bank holidays or weekends</li> </ul>	8 weeks

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Thrombophilia Screen (Including Protein C, Protein S, Antithrombin III, APCR and Lupus)	Haematology, University Hospital Galway	<b>Citrated Plasma</b> <b>4x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be <b>frozen</b> immediately	Must be received in lab for pre analytical preparation within 3 hours of phlebotomy. The patient must not be on any anticoagulant therapy at the time of sample taking. If the patient is on anticoagulant therapy they must have stopped for a period of 3 months before testing. Sample preparation 1) Check sample volume. 2) Check for clots and haemolysis. 3) Attach "sample checked for clots" label to request form. 4) Centrifuge at 2500g for 5 min. 5) Remove plasma from all of the samples and pool into one plastic tube which is labelled with patients name and PID 6) Centrifuge the pooled plasma at 2500g for 5 min. 7) Remove plasma into 4 tubes labelled with Patients Name, PID and date. 8) Store in Haematology Freezer until transfer to Galway University Hospital.	5 weeks
Thyroglobulin (TG)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	• ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample	
Titanium	CHU Angers Cetre Hospital, France via Biomnis	<b>Plasma</b> <b>Lithium heparin (non-gel)</b> <b>Ref: 367883</b> (1 mL)	<b>Refrigerated</b> (+4°C)	• Optical Emission Spectrometry with Inductively Coupled Plas	1 month
TORCH screen antibodies (Screen includes: toxoplasmosis, rubella, cytomegalovirus, herpes simplex, and HIV)	Virology, Galway University Hospital	Refer to individual tests for test require	<b>Refrigerated</b> (+4°C)		
Toxicology / Drug Screen (Serum): (Screen includes: Alcohol, Amphetamine/Ecstasy, Cocaine, Metabolite, Methadone, Opiates, Benzodiazepine & Cannabinoids)	Labor Dessau, Kassel, Germany via Biomnis	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	Sample must be <b>frozen</b> immediately		4 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Toxicology / Drug Screen (Urine): (Screen includes: TCA, Cannabinoids, Amphetamines/Methamp, Benzodiazepine, Cocaine Metabolite, Opiates, Alcohol, Urinary Creatinine, EDDP, 6-MAM & Urinary pH	Eurofins Biomnis Ireland	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (10mL)	<b>Refrigerated</b> (+4°C)		1 day
Toxocariasis	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	If positive, the confirmation test is automatically performed.	3 days
Toxoplasmosis - IgG/IgM	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>• ALWAYS specify the type: screening, screening check, follow-up, follow-up check, pregnancy screening, pregnancy screening check, pregnancy follow-up, pregnancy follow-up check or newborn.</li> <li>• In case of doubtful serology result, a confirmation test by westernblot is automatically performed, test code WBTXG</li> </ul>	3 days
TP53 Gene Analysis	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> <b>3x K<sub>3</sub> EDTA - Ref 368857</b> (5mL)	<b>Refrigerated</b> (+4°C)	Sample must be taken before 11.30am only on Mon, Tues, Wed or Thurs. Sample must reach Ref Lab within 24 hours.	6 weeks
Transfusion Reaction Investigation – Culture of Implicated Units	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	Sealed Implicated Blood Component(s)	Ambient		7-14 days
Tryptase (Mast Cell) (Anaphylactic Shock: Post reaction work-up)	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	<ul style="list-style-type: none"> <li>• For investigation of anaphylaxis serial samples are required and the timing must be specified. Timing of samples: Immediately after resuscitation (record time) ; At 1-2 hours post reaction (record time) and at 24 hours post reaction (baseline)</li> </ul>	3 weeks
TSH Receptor Antibodies (Anti-TSH receptor antibodies)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>• The search for TSH antiretroviral autoantibodies should be restricted to pregnant women who have or have had Graves' disease or autoimmune thyroiditis or during follow-up of patients with Graves' disease treated by synthetic antithyroid drugs.</li> <li>• ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.</li> </ul>	2 days
Uric Acid (Urine)	Eurofins Biomnis Paris, France via Eurofins	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> <b>Alkalinised</b>	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>• Specify diuresis</li> <li>• Urine alkalinised with sodium hydroxide to pH &gt; 8. Tube for urine sample (4mL)-T28. Dip stick test to be performed onsite at MUH</li> </ul>	2 days



## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Valproic Acid ( <i>Depakine®</i> )	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>Always draw blood at the same time before another administration</li> <li><b>Form Required</b> Enclose the specific clinical information form (R13-INTGB : Medication quantification). <b>Available from MUH Specimen Reception.</b></li> </ul>	2 days
Varicella-zoster Virus IgG antibodies	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<ul style="list-style-type: none"> <li>Samples from pregnant patients who have been in contact with chickenpox are processed urgently if received before 2pm Monday to Friday.</li> <li>The request must be marked as Urgent with clinical details, and the requesting clinician's contact number, clearly stated.</li> <li>The laboratory should be contacted (Ext 4398) to alert staff that the sample is in transit.</li> <li>Indeterminate results are referred to the NVRL for confirmation.</li> </ul>	5 days
Varicella-zoster Virus PCR	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL) or <b>CSF</b> White Top Universal - Ref: UNI0003C	<b>Refrigerated</b> (+4°C)		3 days
Vascular Endothelial Growth Factor ( <i>Cytokine</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>Do not use 10ml tube</li> </ul>	3 weeks
Vedolizumab	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	No storage requirements listed	Antibodies to Vedolizumab will be reflex tested if necessary.	5 days
Vitamin A ( <i>Retinol</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>Plasma</b> <b>Lithium heparin (non-gel)</b> <b>Ref: 367883</b> (2mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>Sample to be frozen within 90 minutes.</li> <li>Home sampling is not advisable.</li> <li>Store samples protected from light but do not pack the tube.</li> </ul>	4 days
Vitamin B1 ( <i>Thiamine</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (2mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>Store samples protected from light but do not pack the tube.</li> </ul>	6 days
Vitamin B2 ( <i>Riboflavin</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (1mL)	Sample must be <b>frozen</b> immediately	Store samples protected from light but do not pack the tube.	2 weeks
Vitamin B6 ( <i>Pyridoxal phosphate</i> )	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (2mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>1 individual aliquot for this analysis.</li> <li>Store samples protected from light but do not pack the tube.</li> </ul>	6 days

## Referral Test Directory A-Z

Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Vitamin C (Ascorbic Acid)	Eurofins Biomnis Lyon, France via Eurofins	<b>Plasma</b> <b>Lithium heparin (non-gel)</b> <b>Ref: 367883</b> (2mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>• 1 individual aliquot for this analysis.</li> <li>• Centrifuge and freeze within 20 minutes</li> <li>• Store samples protected from light but do not pack the tube.</li> <li>• Sample to be withdrawn in your lab on Monday, Tuesday or Wednesday exclusively and to be sent to Eurofins on the day of blood withdrawal; SHELF LIFE OF FROZEN LITHIUM HEPARIN PLASMA: 48 HOURS BEFORE TECHNICAL USE.</li> </ul>	7 days
Vitamin D (1,25-OH-Vitamin D)	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)		3 days
Vitamin D (25-OH-Vitamin D -D2 + D3)	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)		2 days
Vitamin E (Tocopherol)	Eurofins Biomnis Lyon, France via Eurofins	<b>Plasma</b> <b>Lithium heparin (non-gel)</b> <b>Ref: 367883</b> (2mL)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>• Sample to be frozen within 90 minutes .</li> <li>• Home sampling is not advisable.</li> <li>• Store samples protected from light but do not pack the tube.</li> <li>• If requested with vitamin A, 1 specific aliquot for both assays</li> </ul>	4 days
Vitamin K1 (Phylloquinone)	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>• Sample to be frozen within 90 minutes .</li> <li>• Home sampling is not advisable.</li> </ul>	2 weeks
Von Willebrands Factor Antigen (vWF:Ag)	Haematology, University Hospital Galway	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be <b>frozen</b> immediately	Samples are prepared as per Factor Assay	4 weeks
Weak D Genotype	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA</b> <b>K<sub>2</sub>EDTA (cross match)</b> (≥3mL)	Ambient		14 days
Xanthochromia	Biochemistry Lab, Beaumont Hospital, Beaumont Road, D9	<b>CSF</b> <b>Xanthochromia Tube - Ref:60.611.011</b> <b>Sample must be collected and received in darkened container</b>	Sample must be <b>frozen</b> immediately	<ul style="list-style-type: none"> <li>• Sample container available from Microbiology MUH.</li> <li>• Sample must be collected and received in darkened container.</li> </ul>	1 day
Yellow fever - Immunity test	Laboratoire Cerba, France via Biomnis	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)	• This test is designed to measure anti viral immunity	15 days
Yersinia Antibodies (Anti-YOP)	Labor Volkmann via Biomnis	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)		2 weeks
Zika - Serology	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	• <b>Form Required.</b> Enclose the specific clinical information form (R28-INTGB : Dengue-Chikungunya-West Nile-Zika). <b>Available from MUH Specimen Reception.</b>	1 week

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Test Name	Testing Laboratory	Specimen Collection Container	Storage Requirements	Special Requirements	TAT
Zika Virus - PCR	Eurofins Biomnis Lyon, France via Eurofins	<b>Plasma</b> <b>K3EDTA - Ref: 368857</b> (2 mL) <b>Serum</b> <b>SST Gel - Ref: 367954</b> (2mL) <b>Urine</b> <b>Universal Container - Ref: UNI0003C</b> (2mL) <b>Saliva</b> <b>Universal Container - Ref: UNI0003C</b> (2mL) <b>Sperm</b> <b>Universal Container - Ref: UNI0003C</b> (2mL)	Refrigerated (+4°C)	<ul style="list-style-type: none"> <li>• <b>Form Required.</b> Enclose the specific clinical information form (R28-INTGB : Dengue-Chikungunya-West Nile-Zika).</li> <li>• <b>Available from MUH Specimen Reception.</b></li> <li>• The use of the S14UK transport bag is Mandatory.S14: Special mycobacteria transport bags are to be used.</li> </ul>	3 days
Zinc	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref: 3678676</b> (2mL)	Refrigerated (+4°C)	<ul style="list-style-type: none"> <li>• Do not use tubes with seperator gel</li> <li>• Centrifuge the sample and decant rapidly</li> <li>• Not to to be performed on haemolysed sample</li> <li>• Spin down and immediately decant plasma from cells.</li> <li>• Immediately decant the plasma(maximum 1 hour).</li> </ul>	4 days
ZNT8 Antibodies	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Refrigerated (+4°C)	<ul style="list-style-type: none"> <li>• Do not use 10 mL tube</li> </ul>	14 days