

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
17- Hydroxy-Pregnenolone (17-OH Pregnenolone)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated. If frozen, stable for 28 days	• 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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
17-Alpha-OH-Progesterone (Serum) (17-Hydroxyprogesterone)	Accredited	Biochemistry Laboratory, St James's Hospital	Serum Serum non gel - Ref: 367837 (5ml)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Paediatric and adult ranges available	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
17-Alpha-OH-Progesterone <1 year old (17-Hydroxyprogesterone)	Not Accredited	Biochemistry Laboratory, CHI, Crumlin, Dublin	Serum Serum Paediatric tube - Ref 41.1378.005 (1.3ml)	Sample must be spun and frozen immediately	<1 hour. Once frozen samples stable for 5 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
17-Alpha-OH-Progesterone >1 year old (Serum) (17-Hydroxyprogesterone)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
5-HIAA (Urine)	Accredited	Biochemistry Lab, Beaumont Hospital, Beaumont Road, D9	Urine 24 hour Urine Container Ref: 77.575.401 Acidified	Refrigerated (+4°C)	<7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-3 weeks
ABO Blood Group Anomaly Investigation (Serological)	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Acanthamoeba (Amoebic Keratitis)	Accredited	Micropathology Ltd., Coventry, UK	Corneal scraping on a dry sterile swab	No storage requirements indicated	No requirements		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 Month
Activated Partial Thromboplastin Time (APTT)	Accredited	Haematology. Mayo University Hospital	Citrated Plasma Sodium Citrate - ref: 363095 (2.7mL) Sodium Citrate paed - ref: 41.1350.005 (1.3mL)	Room Temperature	24 hours		Haematology Department MUH Request Form - H/LF/002	Routine: 2 hours Out-of hours: 1.5 hour
Activated Protein C Resistance (APC-R)	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma Sodium Citrate - ref: 363095 Sodium Citrate paed - ref: 41.1350.005	Sample must be frozen immediately	<2 hours. Once frozen samples stable for 3 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 weeks
Activated Protein C Resistance (APC-R)	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	Guthrie card 2 blood spots on Newborn Screening card, air dry for 2 hours	Ambient - allow to air dry of 2 hours	7 days	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-3 weeks

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Acylcarnitines	Accredited	Great Ormond Street Hospital, Great Ormond St., London WC1N 3JH, UK. via Eurofins	Guthrie card 2 blood spots on card, air dry for 2 hours	Ambient - allow to air dry of 2 hours	7 days	Sent to Biomnis if patient clinical details are development delays etc. Full clinical information and reason for request must accompany specimen.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Adalimumab	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (4mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Please contact MUH Specimen Reception for required clinical forms.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 weeks
ADAMTS – 13 <i>(von Willebrand factor-cleaving protease (VWFCP))T.T.P Screen</i>	Accredited	Haemostasis and Thrombosis Lab, Belfast City Hospital	Citrated Plasma 2x Sodium Citrate - ref: 363095 (2.7ml)	Samples must be transported on dry ice and only be transported Tuesday to Thursday only.	<1 hour	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Non urgent < 3weeks Urgent <6wks
Adenosine Deaminase activity	Accredited	Eurofins Biomnis France - Referred in Begin Hospital	Serum SST gel - Ref: 367954 (4mL) or CSF White Top Universal - Ref: UNI0003C or Pleural Fluid White Top Universal - Ref: UNI0003C or Ascite fluid White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	Blood: <48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 weeks
Adenovirus / Rotavirus Antigen (<5 yr old)	Accredited	Medical Microbiology, Galway University Hospital	Faeces Blue Top Stool Universal - Ref: UNI0039B	Refrigerated (+4°C)	<48 hours refrigerated.	MUH will not accept any requests for Adenovirus/ Rotavirus on anyone >5 years old. Samples will be rejected upon receipt if received.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Adrenocorticotrophic hormone (ACTH) (Adult) <i>(Corticotrophin)</i>	Accredited	Clinical Biochemistry, Galway University Hospital	EDTA Plasma K₂ EDTA - Ref 368857 (4mL) must be delivered on ice	Sample must be spun and frozen immediately	<1 hour	Contact Biochemistry MUH for ice pack. Alert and hand directly to laboratory specimen reception staff on ice	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Adrenocorticotrophic hormone (ACTH) (Paeds) <i>(Corticotrophin)</i>	Accredited	St Vincents Hospital via Crumlin	EDTA Plasma K₂EDTA Paediatric tube - Ref: 72001 (2.7ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Contact Biochemistry MUH for ice pack. Alert and hand directly to laboratory specimen reception staff on ice	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Albumin	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour

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Alcohol	Accredited	Biochemistry, Mayo University Hospital	Fluoride Oxalate Fluoride Oxalate - Ref: 368920 (3mL)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 2 days	Serum/ Plasma samples should be sent to lab promptly, If receipt is delayed >12 hrs, Grey top Fluoride oxalate should be used.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Alcohol	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<12 hours unspun at room temperature.	Serum/ Plasma samples should be sent to lab promptly, If receipt is delayed >12 hrs, Grey top Fluoride oxalate should be used.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Aldolase	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (4mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Blood draw preferentially after a 30-min resting period	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Aldosterone	Accredited	Eurofins Biomnis Paris, France via Eurofins	EDTA Plasma K₃ EDTA - Ref 368857 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Aldosterone	Accredited	Clinical Biochemistry, Galway University Hospital	EDTA Plasma 2x K₃ EDTA - Ref 368857 (5mL)	Sample must be spun and frozen immediately	<24 hours unspun. Once frozen samples stable for 5 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Alkaline Phosphatase Isoenzymes	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<4 days refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Allergen Specific IgE (Rast)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated	Must specify allergen according to history. Comment : Those not performed in GUH are referred to Immunology Dept, Northern General Hospital, Sheffield	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days

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ALP	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Alpha fetoprotein (AFP)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 5 days.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Priority: 1 working day Routine: 4 working days
Alpha- Thalassaemia by Molecular Testing	Accredited	Purine Research Laboratories, St Thomas Hospital. London	EDTA Plasma 4x K3 EDTA - Ref 368857 (4mL)	Ambient	4 days ambient		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Alpha-1-Antitrypsin	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Alpha-1-antitrypsin subtypes not performed here, but available in Beaumont Hospital	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Alpha-1-Antitrypsin Clearance, serum+stools	Not Accredited	Eurofins Biomnis Paris, France via Eurofins	Faeces Blue Top Stool Universal - Ref: UNI0039B (30g) and Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	Serum: <48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Alpha-1-Antitrypsin Phenotyping	Not Accredited	Alpha-1-Foundation, RCSI Building, Beaumont Hospital, Dublin 9	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 weeks
Alpha-1-iduronidase (Screen for Hurlers Syndrome)	Accredited	Willink Unit, Royal Manchester Children's Hospital	EDTA Plasma K ₂ EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<72 hours	Needs to be received in referral laboratory within 72 hours of collection. Contact Specimen reception for further details	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
ALT	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Aluminium	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Heparin Plasma Sodium Heparin - Ref 3678676 (3mL) or Urine White Top Universal -Ref: UNI0003C (10mL)	Refrigerated (+4°C)	Blood: <1 hour unspun. Once spun samples stable for 5 days refrigerated	Spin down and immediately decant plasma from cells. Immediately decant the plasma.(maximum 1 hour)	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Amikacin	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL) or Plasma PST gel - Ref 367962 (3mL)	Sample must be spun and frozen immediately	Once spun and frozen samples stable for 14 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days

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Amino Acids (Blood)	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	Plasma PST gel - Ref 367962 (3mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Clinical details must be provided for interpretations and appropriate follow-up. Please provide clinical details or sample will not be processed.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-3 days
Amino Acids (Urine)	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	Urine White Top Universal- Ref: UNI0003C	Sample must be frozen immediately	Once frozen samples stable for 5 days	Not analysed in Temple Street if clinical details include developmental delays etc. Fresh urine required. 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. Urine pH should be measured. Where the pH≥8.5, microbial contamination is suspected, continue to dispatch urine sample to CHI at Temple Street and please request a repeat urine sample on the patient..	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-3 weeks
Amino Acids (Urine)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Urine White Top Universal - Ref: UNI0003C 2 x containers early morning urine (Fasting)	Sample must be frozen immediately	Once frozen samples stable for 5 days	Sent to Biomnis if clinical details indicate developmental delays, autism etc. 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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Amiodarone (Cordarone)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum Serum non gel - Ref: 367837 (5ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Ammonia	Accredited	Biochemistry, Mayo University Hospital	Plasma PST gel - Ref 367962 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Sample for ammonia should be transported on ice – if ice is not readily available, transport the sample as quickly as possible at RT.	<15 mins	Must be received in Lab < 15 mins post venepuncture. Please inform the lab prior to sending.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Amylase	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Amylase, Urine	Accredited	Biochemistry, Mayo University Hospital	Urine Urine Z tube (Urinalysis) Reference: 368501	Ambient	<48 hours at room temperature. Once refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Amyloid A	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Androstenedione Delta 4, serum	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL) or Plasma PST gel - Ref 367962 (3mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 4 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Angelman's Syndrome (Karyotype/FISH)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Heparin Whole Blood Lithium heparin (non-gel) - Ref: 367883 (5mL)	Ambient	4 days ambient	Each request must ALWAYS be accompanied by a consent form signed by the patient and the prescribing pathologist	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	9-21 days; 9 if paediatric emergency

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Angiotensin Converting Enzyme (ACE)	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated, <1 year frozen		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Antenatal group, antibody screen and antibody identification, phenotyping (as required)	Accredited	Galway Blood Transfusion Establishment (GBTE), Galway University Hospital	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Refrigerated (+4°C)	4 days refrigerated	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Urgent: 2 days Routine: 5 days
Anti-Acetylcholine Receptor Abs	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Actin Antibody	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Anti-Adrenal Antibodies	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Beta-2 Glycoprotein-1 Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Antibody investigation	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood 2 x K₂EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Anti-c Quantitation	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Anti-C1q Antibodies	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Anti-Cardiolipin Antibodies (Vasculitis Screen)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Centromere Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Cyclic citrullinated peptide antibodies (CCP)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days

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Anti-D Quantitation	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K ₂ EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Anti-Diuretic Hormone (ADH) (<i>Vasopressin</i>)	Accredited	Eurofins Biomnis Paris, France via Eurofins	EDTA Plasma K ₂ EDTA (Aprotinine) - Ref: 361017 (5mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Anti-double stranded DNA Antibody (dsDNA)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Only performed in the context of positive ANA	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Endomysial Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	IgA anti-endomysial antibody test if IgA anti-tTG screening test positive.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-Endomysium IgA Antibody	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Anti-Extractable Nuclear Antigens (ENA) Screen: Sm/RNP/Ro/La/Sci-70/Jo-1	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Gastric Parietal Cell Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Gliadin Abs (IgG+IgA)	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Anti-Glomerular Basement Membrane Antibodies (GMB)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Anti-Glutamic Acid Decarboxylase (GAD) Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-glycolipid antibodies (Gangliosides) (CSF)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	CSF White Top Universal - Ref: UNI0003C (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	13 days
Anti-glycolipid antibodies (Gangliosides) (Serum)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	13 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Anti-Histone Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Anti-IgA Antibodies	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Anti-Insulin Antibodies (Total) (IAA)	Not Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Anti-Intrinsic Factor Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Anti-Islet Cells Antibodies (ICA)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Anti-Jo-1 Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-La (SS-B) Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-Liver Kidney Microsomal (LKM) Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-M2 Mitochondrial (Pyruvate Dehydrogenase) Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Anti-Mitochondrial Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-MOG antibodies	Not Accredited	Churchill Hospital, Oxford via Eurofins	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	25 days
Anti-Mullerian Hormone	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated, <6 months frozen	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Anti-MUSK Antibodies	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 months
Anti-Myeloperoxidase (MPO) Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Neuromyelitis Optica (NMO) Antibodies/ Anti Aquaporin Antibodies (AQP4)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-Neurone Antibodies (CSF)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	CSF White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Anti-Neurone Antibodies (Serum)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Anti-Neutrophil Antibody	Accredited	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Filton, 500 North Bristol Park, Northway, Filton, Bristol, BS34 7QH	Adults Serum SST gel - Ref: 367954 (7mL) Sample must be centrifuged and free from haemolysis Neonates Maternal samples: EDTA Plasma 3x K3 EDTA - Ref 368857 (6mL) and Serum SST gel - Ref: 367954 (6mL) Paternal samples: EDTA Plasma 3x K3 EDTA - Ref 368857 (6mL) Neonatal samples: EDTA Plasma if possible K3 EDTA - Ref 368857 (1mL)	Refrigerated (+4°C)	Send same day as collection to referral lab. <72 hours stability	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	3E Histocompatibility & Immunogenetics NHS Granulocyte Immunology (H/EXT/093)	21 days
Anti-Neutrophil Cytoplasmic Antibodies (ANCA)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Anti-NMDA receptor Antibodies (CSF)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	CSF White Top Universal - Ref: UNI0003C (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Anti-NMDA receptor Antibodies (serum)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-Nuclear Antibody (ANA)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Ovarian Antibodies	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Pemphigus and Pemphigoid Autoantibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	14 days
Anti-Phospholipase 2A Receptor Antibodies (PLA2R)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 3 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Platelet Antibody Investigation	Accredited	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Filton, 500 North Bristol Park, Northway, Filton, Bristol, BS34 7QH	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<5 days spun and refrigerated.		3D Histocompatibility & Immunogenetics NHS Platelet Immunology	
Anti-potassium channel antibodies (anti-VGKC/anti-Lgi 1/anti-Caspr2)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (6mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Anti-Proteinase 3 (PR3) Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Ribosomal P Protein Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Anti-Ro (SS-A) Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-Scl-70 (Topoisomerase 1) Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-Skeletal (Striated) Muscle Antibodies	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Anti-Sm (Smith) Antibody	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-Smooth Muscle Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Soluble Liver Antigen (SLA) Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Anti-SP100 IgG Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (4mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Anti-Stomach Parietal Cells Antibodies	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Anti-Streptodornase (Anti DNase) B Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Anti-Streptolysin-O (ASO/ASOT)	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Anti-Thrombin <i>(refer to Thrombophilia Screen)</i>	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma Sodium Citrate - ref: 363095 (2.7ml)	Ambient	<3 hours unspun. Once spun samples stable for 8 days refrigerated.	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 weeks
Anti-Thyroglobulin (TG) Abs	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 3 days refrigerated, <30 day frozen		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Anti-Thyroid Peroxidase (TPO) Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 3 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Transglutaminase (TTG) Antibodies	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Anti-Tyrosine Phosphatase (IA2) Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Anti-UI RNP Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Anti-Voltage Gated Calcium Channel (VGCC) antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	15 days
Anti-Xa (Low M.W. Heparin Assay)	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma 2x Sodium Citrate - ref: 363095 (2.7ml)	Sample must be frozen immediately	<2 hours. Once frozen samples stable for 3 days	Samples must be centrifuged and plasma removed within 2 hours of phlebotomy. Do not send samples which have not been centrifuged. Preparation of samples as for Factor Assays. Samples must be taken 4-6 hours post dose. Type of LMWH should be stated with time of last dose on the request form	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Anti-Xa - Apixaban only	Accredited	Haematology Laboratory, Central Pathology Laboratory (CPL) Building, LabMed Directorate, St James's Hospital	Citrated Plasma 2x Sodium Citrate - ref: 363095 (2.7ml)	Sample must be frozen immediately	<2 hours. Once frozen samples stable for 3 days	Samples must be centrifuged and plasma removed within 2 hours of phlebotomy. Do not send samples which have not been centrifuged. Preparation of samples as for Factor Assays. Samples must be taken 4-6 hours post dose. Type of LMWH should be stated with time of last dose on the request form	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Anti-Zn Transporter 8 (ZnT8) Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	18 days
Arsenic, urine	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Urine White Top Universal - Ref: UNI0003C (10mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Ascitic Fluid - cytology	Not Accredited	Histopathology Department, Mayo University Hospital	Ascitic Fluid 15 ml of fluid placed in pre-filled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid	Ambient	Ascitic Fluid to be placed directly into pre-filled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid.	Shandon Cytospin Collection Fluid (green fixative fluid) [Available from the Histopathology Laboratory ext 2564]	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Aspergillus, screening (Farmers Lung)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (10mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Aspirates - cytology	Not Accredited	Histopathology Department, Mayo University Hospital	Aspirate 15 ml of fluid placed in pre-filled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid	Ambient	Aspirates to be placed directly into pre-filled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid.	Shandon Cytospin Collection Fluid (green fixative fluid) [Available from the Histopathology Laboratory ext 2564]	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
AST	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<24 hours unspun. Once spun and refrigerated sample is stable for 4 days	Must be received in lab on same day post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Auto Immune ENA Panel	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Auto Immune Inflammatory Myopathy panel	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Autoimmune Haemolytic Anaemia	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood 2 x K₂EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Autoimmune Liver Disease Panel	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Autoimmune Neutropenia	Accredited	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Filton, 500 North Bristol Park, Northway, Filton, Bristol, BS34 7QH	Serum SST gel - Ref: 367954 (6mL) and EDTA Whole Blood K3 EDTA - Ref 368857 (2mL)	Ambient	<24 hours unspun. Once spun samples stable for 5 days refrigerated.	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 Form must state most recent neutrophil count, medication, and must be signed by requesting clinician. The neutrophil count of the patient should be <2x10 ⁹ /L. Ensure that sample is sent on day of collection to ensure that sample is in Bristol within 72 hours	3E Histocompatibility & Immunogenetics NHS Granulocyte Immunology (H/EXT/093)	7 days
Autoimmune Systemic Sclerosis Panel	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Azathioprine	Not Accredited	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Eurofins	Heparin Whole Blood 2x Lithium Heparin - Ref:367883 (5mL)	Refrigerated (+4°C)	<24 hours refrigerated	Specify: - 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 aminosalicilic 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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	60 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Bartonella henselae (Cat Scratch Disease) Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
BCR-ABL (Blood)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (9mL)	Refrigerated (+4°C)	<24 hours refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	20 days
BCR-ABL (Bone Marrow)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	Bone Marrow RPMI (9mL)	Refrigerated (+4°C)	<24 hours refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10-15 days
Bence-Jones proteins (Urine Free Light Chains)	Not Accredited	Immunology, Galway University Hospital	Urine White Top Universal - Ref: UNI0003C (10mL) First early morning Urine or 24h urine 24 hour Urine Container Ref: 77.575.401 for quantification	Refrigerated (+4°C)	Samples stable for 1 month refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10days
Beta-2-Microglobulin	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Beta-2-Transferrin	Accredited	University of Birmingham, Clinical Immunology Service via Eurofins	Serum SST gel - Ref: 367954 (3mL) and Biological Fluid White Top Universal - Ref: UNI0003C (200ul)	Sample must be spun and frozen immediately	<1 hour. Serum: Once frozen samples stable for 5 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Beta-Crosslaps (CTx)	Not Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Beta-d-glucan (1-3)	Accredited	Microbiology Department, St James Hospital	Serum Serum non gel - Ref: 367837 (5ml) SST gel - Ref: 367954 (4mL)	Refrigerated (+4°C)	<48 hours refrigerated	Performed on Monday and Thursday mornings. Please allow 3 days before repeat sampling. Specimens taken on consecutive days will not all be tested. Send sample to the laboratory without delay. Sample should be refrigerated if not transported immediately	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Bicarbonate	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<4 hours	Please send to Lab promptly. Must be received in lab within 4 hrs post venepuncture. Please fill tube adequately.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Bile Acids	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 7 days.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Bilirubin Direct	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient - protect from the light	<24 hours unspun. Once protected from light, spun and refrigerated sample is stable for 3 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Bilirubin Total	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun. Once protected from light, spun and refrigerated sample is stable for 3 days	Send to lab promptly to avoid light deterioration	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Biopsies - for Histological Examinations	Not Accredited	Histopathology Department, Mayo University Hospital	Formalin fixed tissue	Ambient	Biopsies to be placed directly into pre-filled Histopot containing 10% NBF	Ensure the tissue is fully immersed in formalin.	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Biotinidase	Not Accredited	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Eurofins	Serum SST gel - Ref: 367954 (5mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Bring directly to Lab and hand to Specimen Reception	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 weeks
BK Polyomavirus	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (5mL)	Sample must be spun and frozen immediately	Separated within 24 hours and frozen at -20°C; long term frozen at -20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Blood Film	Accredited	Haematology Laboratory, CHI Crumlin	Blood film: 2x stained and 2x unstained and Copy of the FBC report	Refrigerated (+4°C)	N/A	Before referral make additional blood films for retention in MUH. If the sample is greater than 24 hours old request a fresh repeat sample.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	28 days
Blood Film Morphology	Accredited	Haematology, Mayo University Hospital	EDTA Whole Blood K ₂ EDTA - Ref 368857 (3mL) or EDTA Paediatric tube - Ref: 72001 (1.3mL)	4°C	24 hours		Haematology Department MUH Request Form - H/LF/002	3 days
Blood Gas	Not accredited	Biochemistry, Mayo University Hospital	Whole Blood - must be completed within 20 minutes post phlebotomy	Ambient	<20 minutes		Biochemistry Department MUH Request Form - B/LF/001	
Blood Group / Antibody Screen	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K ₂ EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Routine: 24 hrs. Emergency: within 2 hrs of receipt of sample if no antibodies detectable
Blood Group and Compatibility Testing	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K ₂ EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	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)	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood 2 x K ₂ EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.	Please note TAT is dependent on the complexity of antibodies detected.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-6 hours
Bordatella species (Whooping cough / Pertussis)	Accredited	Microbiology Laboratory, Children's Health Institute Ireland, CRUMLIN	Perinasal Swab Perinasal Swab - Ref:192C Swab must be in transport media	Refrigerated (+4°C)	<72 hours refrigerated.	• Swabs available from Microbiology MUH	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Bordetella pertussis (anti toxin Abs)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Borrelia (Lyme Disease) IgG+IgM Antibodies	Accredited	Eurofins Biomnis Paris, France via Eurofins	CSF White Top Universal - Ref: UNI0003C (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Borrelia burgdorferi antibodies (Lyme Disease) (Blood)	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL) For CSF-PCR see under Cerebrospinal Fluid	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-3 weeks
BRCA 1 + 2	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Ambient	<24 hours ambient. >24 hours refrigerate sample.	Test requests must be accompanied by a completed BRCA test request and consent form. Blood sample(s) should be sent at room temperature by courier. Refrigerate if there will be more than a 24 hr delay before posting. DO NOT FREEZE.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form	30 days
Bronchial Brush Specimen - cytology	Not Accredited	Histopathology Department, Mayo University Hospital	Bronchial Brush Localize and sample lesion. Snip off tip of the sampling brush and deposit in twist top leak proof 30mL Universal containers containing Shandon Cytospin Collection Fluid	Ambient	Bronchial Brush to be placed directly into prefilled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid.	Indicate clinical history on test requisition, and the specific site sampled. (e.g. left lobe BAL)	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Broncho Alveolar Lavage fluid (BAL) - cytology	Not Accredited	Histopathology Department, Mayo University Hospital	BAL Collect fresh 15mL specimens into twist top leak proof 30mL Universal containers containing Shandon Cytospin Collection Fluid	Transport to the laboratory without delay	Bronchial Alveolar Lavage fluid to be placed directly into prefilled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid.	Indicate clinical history on test requisition, and the reason for test.	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Brucella Screening, Agglutination	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
C Peptide	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Sample must be spun and frozen immediately	<1 hour		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
CA125	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 5 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 days
CA15-3	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
CA19-9	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 days
Cadmium, urine	Not Accredited	Eurofins Biomnis Ireland	Urine White Top Universal - Ref: UNI0003C (20mL) Random Urine	Refrigerated (+4°C)	4 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Caffeine, serum	Not Accredited	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Collection date and time. Date and time since last dose, and Dosage data. Age, height and weight. General Clinical History. Reason for request, all Must be included on request form	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Calcitonin	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (4mL)	Sample must be spun and frozen immediately	< 1 hour. Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Calcium	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Calcium, Urine	Accredited	Biochemistry, Mayo University Hospital	Urine Acidified Urine 2 tube (Urinalysis) Reference: 368501	Ambient	<48 hours at room temperature. Once refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Calprotectin	Not Accredited	Eurofins Biomnis Ireland	Faeces Blue Top Stool Universal - Ref: UNI0039B (20g minimum)	Refrigerated (+4°C)	< 8 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
CALR exon 9 mutations (calreticulin mutation)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (3mL)	Refrigerated (+4°C)	<24 hours	Send Monday to Thursday before 11.00 a.m.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10-15 days
Campylobacter - serology	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (7mL) Do not use 10mL tube	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Carbamezepine (Tegretol)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 7 days.	Take specimen immediately before next dose (trough specimen)	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Carbazepine-OH (Trileptal®) (10-Hydroxy-carbazepine)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum Serum non gel - Ref: 367837 (2ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Carbazepine-OH (Trilepta®) (10-Hydroxy-carbazepine)	Not Accredited	Eurofins Biomnis France - Referred in "Groupement Hospitalier Est" in Lyon	Plasma SST (Gel) - Ref: 367962 (4mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	20 days
Carotene (beta)	Accredited	Eurofins Biomnis France - Referred in Lyon Sud Hospital	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately (protect from light; avoid gel separator tubes)	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	13 days
Catecholamines (Blood)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum 2 x Serum non gel - Ref: 367837 (2ml)	Sample must be spun and frozen immediately	<1 hour. Once frozen samples stable for 5 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Catecholamines and Metabolites (Adrenaline / Noradrenaline (VMA) / Dopamine / Metanephrine / Normetanephrine) (Urine)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Urine 24 hour Urine Container Ref: 77.575.401	Sample must be frozen immediately	<24 refrigerated. Once frozen samples stable for 20 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
CEA	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 days
Cerebrospinal (CSF) Fluid – cytology for Malignant Cells	Not Accredited	Histopathology Department, Mayo University Hospital	CSF 0.5 – 20mL cerebrospinal fluid, lumbar puncture or ventricular tap in a 30mL universal container.	Refrigerate overnight if necessary	Cerebrospinal Fluid, received as fresh fluid, Shandon cytospin fluid added upon arrival in histology lab	Indicate clinical history on test requisition and reason for test	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Ceruloplasmin	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Chlamydia psittaci Antibodies	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Chlamydia trachomatis & Nesseria gonorrhoea dual assay (PCR)	Accredited	Virology, Galway University Hospital	Urethral swab Abbott Multicollect swab Ref: 9K12-02 Note: Urine collected as part of Abbott Multi Collect will only be tested on male patients from the STI clinic	If delayed refrigerate (+4°C)	<48 hours	Note: Urine collected as part of Abbott Multi Collect will only be tested on male patients from the STI clinic Abbott Multicollect swab preferably delivered to the laboratory within 24 h of collection.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Chlamydia trachomatis & Nesseria gonorrhoea dual assay (PCR)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Urine Aptima Urine Collection Kit (GC Test) Ref: 301040	Refrigerated (+4°C)	2-8°C for 30 days	GP Urines. Only sent when Aptima Urine Collection Kit (GC Test) is received.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Chloride	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Cholesterol	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days	Patient should be >12 hr fasting	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Cholinesterase	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Chromium	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Heparin Whole Blood Sodium Heparin - Ref 3678676 (3mL) or Urine White Top Universal - Ref: UNI0003C (10mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Chromogranin A	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Do not use haemolysed samples. Do not use phase separator tubes	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Chromosome Analysis (Culture)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Heparin Whole Blood Lithium heparin (non-gel) - Ref: 367883 (5mL)	Ambient	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	13 days
Chromosome Analysis, Products of conception/CVS	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Chorionic villus specimen	Ambient	<5 days ambient	Contact Histology regarding specimen collection container	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	5 (Direct Examination) 8 - 18 (Culture)

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Chromosome Y microdeletions (Multiplex PCR)	Not Accredited	Eurofins Biomnis Ireland	Cultivated amniotic fluid, cultivated trophoblasts	Ambient	<5 days ambient	Contact Histology regarding specimen collection container	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	13 days
Citric acid (Citrate)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Urine 24 hour Urine Container Ref: 77.575.401 (5 mL) (non acidified)	Sample must be frozen immediately	Once frozen samples stable for 5 days	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)	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
CK	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 44.4292.005 (4.2mL)	Ambient	<24 hours unspun at room temperature. Once spun and refrigerated sample is stable for 1.5 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Clostridium difficile toxin B gene detection	Accredited	Medical Microbiology, Galway University Hospital	Faeces Blue Top Stool Universal - Ref: UNI0039B (1-2g during acute phase of illness)	Refrigerate (+4°C). If delayed >72h sample must be frozen (-20°C)	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Clozapine (Leponex®, Clozaril)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Heparin Plasma Lithium heparin (non-gel) - Ref: 367883 (1mL)	Refrigerated (+4°C)	<3 days unspun, refrigerated. <7 days spun and refrigerated.	Do not use gel separator tubes	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Coagulation Factor Assays (incl Factors – II, V, VIII, VIII:C, IX, XI, XII, and FX)	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma 2x Sodium Citrate - ref: 363095 Sodium Citrate paed - ref: 41.1350.005	Sample must be frozen immediately	Once frozen samples stable for 3 days	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Coagulation Screen (PT and APTT)	Accredited	Haematology, Mayo University Hospital	Citrated Plasma Sodium Citrate - ref: 363095 (2.7mL) Sodium Citrate paed - ref: 41.1350.005 (1.3mL)	See individual tests	See individual tests		Haematology Department MUH Request Form - H/LF/002	Routine: 2 hours Out-of hours: 1.5 hour
Cobalt	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Heparin Whole Blood Sodium Heparin - Ref 3678676 (3mL) or Urine White Top Universal - Ref: UNI0003C (10 mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Coeliac Screen (Anti-Tissue Transglutaminase (TTG) Antibodies)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Cold Agglutinins	Accredited	Blood Transfusion, Mayo University Hospital	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Immediately to Lab @ 37°C	Samples should be tested as soon as possible following collection.	Immediately to Lab @ 37oC	Blood Transfusion MUH Request form - BT/LF/001	5 Hours
Complement C1 Esterase Inhibitor	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Complement C1 Esterase Inhibitor Functional Assay	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<24 hours	Must arrive in Immunology on the same day it was taken. Time and date of collection must be stated on request form	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 weeks
Complement C1 q	Accredited	Immunology Dept, St James Hospital, Dublin	Serum Serum non gel - Ref: 367837 (5ml)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 weeks
Complement C3 Nephritic Factor	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 dyas
Complement C3/ C4	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Complement: C2/C5/C6/C7/C8/C9	Accredited	Immunology Dept, St James Hospital, Dublin	Serum Serum non gel - Ref: 367837 (5ml)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 3 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 weeks
Complex Immunohaematology Testing	Accredited	IBGRL Molecular Diagnostics NHS Blood and Transplant North Bristol Park Filton, Bristol via IBTS	EDTA Whole Blood K₂EDTA (cross match) (6mL) Contact RCI for sample volume information prior to referral	Ambient	<48 hours 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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Not specified
Connexin 26 and 30	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<5 days ambient		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	3 months

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Copper, Plasma	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Heparin Plasma Sodium Heparin - Ref 3678676 (2mL)	Spin and separate immediately. Refrigerated (+4°C)	<1 hour unspun. Once spun samples stable for 5 days refrigerated	Spin down and immediately decant plasma from cells. Immediately decant the plasma.(maximum 1 hour) - separation needs to be performed in Biochemistry MUH Hemolysed sample refused	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Copper, urine	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Urine 24 hour Urine Container Ref: 77.575.401 (20 mL)	Refrigerated (+4°C)	7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Cortisol	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-4 days
Cortisol Free, urine	Accredited	Eurofins Biomnis Paris, France via Eurofins	Urine 24 hour Urine Container Ref: 77.575.401 (20 mL) or Spot urine White Top Universal - Ref: UNI0003C (10 mL)	Refrigerated (+4°C)	<7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Coxiella burnetii - phase 1 and 2 (Q Fever)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	• Do not use 10ml tube. • Phase I and II titration and serology are triggered if the phase II serology is positive	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Coxsackie (Picornavirus, Enterovirus) (CFT)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
C-Peptide	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Sample must be spun and frozen immediately	<1 hour unspun. Once spun and frozen samples stable for 1 month	Fasting	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
C-Reactive Protein	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Creatine phosphokinase - isoenzymes	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated	Not to be performed on haemolysed sample	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Creatine phosphokinase MB (CK-MB)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Creatinine	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days	Must be received in lab on same day post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Creatinine	Accredited	Biochemistry, Mayo University Hospital	Urine Urine Z tube (Urinalysis) Reference: 368501	Ambient	<48 hours at room temperature. Once refrigerated sample is stable for 4 days	Must be received in lab on same day post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Creatinine, urine	Not Accredited	Eurofins Biomnis Ireland	Urine 24 hour Urine Container Ref: 77.575.401	Refrigerated (+4°C)	<6 days refrigerated	State total volume. 15ml aliquot required (3 hour minimum collection)	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Creutzfeld Jakob Disease (CJD, 14-3-3 Protein)	Accredited	Microbiology Dept., Beaumont Hospital	CSF White Top Universal - Ref: UNI0003C (2-5mLs)	Samples must be frozen immediately	<1 hour.	Available only in very specific circumstances and with prior approval of a Consultant Microbiologist. Questionnaire would require to be completed.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-6 weeks
Cryptococcal Antigen	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 upspun. <4 days spun and refrigerated.	Available only in very specific circumstances and with prior approval of a GUH Consultant Microbiologist.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Cryptosporidium parvum	Accredited	Medical Microbiology, Galway University Hospital	Faeces Blue Top Stool Universal - Ref: UNI0039B (1-2g during acute phase of illness)	Refrigerated (+4°C)	<4 days refrigerated	<ul style="list-style-type: none"> * Cryptosporidium spp is tested routinely on all outpatients (GUH). * Ensure sample is in a leak proof laboratory container 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
CSF Protein & glucose	Not accredited	Biochemistry, Mayo University Hospital	CSF White Top Universal - Ref: UNI0003C (1.3mL)	Fresh. Refrigerated at 4°C	<96 hours (should analyse fresh but will keep for 72hours at 4-C)	Send to Lab immediately. All CSF samples must be sent to Microbiology Department first prior to biochemical analysis.	Biochemistry Department MUH Request Form - B/LF/001	Urgent: 1 hour
Culture and investigation for all swab types for [Internal MUH Users]	Not Accredited	Microbiology, Mayo University Hospital	Swab in transport medium or charcoal	If processing is delayed then refrigeration is preferable to storage at ambient temperature	<96 hours		Microbiology Department MUH Request form - M/LF/001	3 days
CPE investigation of swab [Internal MUH Users]	Accredited	Microbiology, Mayo University Hospital	Swab in transport medium	If processing is delayed then refrigeration is preferable to storage at ambient temperature	<96 hours		Microbiology Department MUH Request form - M/LF/001	3 days
Culture and investigation for all swab types for [External MUH users]	Not Accredited	Eurofins Biomnis Ireland	Swab in transport medium or charcoal	If processing is delayed then refrigeration is preferable to storage at ambient temperature	<96 hours	External Service Users	Microbiology Department MUH Request form - M/LF/001	*48h for a negative result. 72h for a positive result.

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Culture and investigation for Respiratory samples [Internal MUH Users]	Accredited (BAL only)	Microbiology, Mayo University Hospital	Expectorated/suctioned Sputum, Brochoaveolar lavage (minimum 5mLs)	Delay of >24hours, then store samples at 2-8°	<48 hours	Internal Service Users: Specimens that are not processed on the same day as they are collected, interpretation of results should be made with care.	Microbiology Department MUH Request form - M/LF/001	3 days
Culture and investigation for Respiratory samples [External Service Users]	Not Accredited	Eurofins Biomnis Ireland	Sputum (minimum 5mLs)	Delay of >24hours, then store samples at 2-8°	<48 hours	External Service Users: Specimens that are not processed on the same day as they are collected, interpretation of results should be made with care.	Microbiology Department MUH Request form - M/LF/001	*48h for a negative result. 72h for a positive result.
Culture and sensitivity investigation of Tissue, Bones, Biopsies	Not Accredited	Microbiology, Mayo University Hospital	Tissues, Bones, Biopsies Send small quantities of these sample types. If sample is very small place in sterile gauze moistened with sterile water to prevent desiccation.	If processing is delayed then refrigeration is preferable to storage at ambient temperature	<96 hours		Microbiology Department MUH Request form - M/LF/001	3 days
Culture and sensitivity investigations of Intravascular tips	Not Accredited	Microbiology, Mayo University Hospital	Intravascular tips Tip should be cut to 4cm and placed in sterile universal container	If processing is delayed, refrigeration is preferable to storage at ambient temperature.	<48 hours	Disinfect the skin around the cannula entry site, remove cannula using aseptic technique, and cut off 4 cm of the tip into an appropriate CE marked leak proof container using sterile scissors.	Microbiology Department MUH Request form - M/LF/001	3 days
Cyclosporin (Neoral)	Accredited	Clinical Biochemistry, Galway University Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (4mL) whole blood	Refrigerated (+4°C)	<48 hours refrigerated. Once spun and refrigerated stable for 13 days.	Collect sample pre-dose. State date/time of sample collection clearly on request form.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Cystic Fibrosis– Genetic Test	Not Accredited	Department of Clinical Genetics, CHI Crumlin	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days refrigerated	Must complete CF patient information request form (CF PID), download from www.genetics.ie	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Crumlin Department of Clinical Genetics Request form	10 weeks
Cystic Fibrosis Screen (51 mutations)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Ambient	<48 hours ambient. >48 hours need to refrigerated.	Sample must be refrigerated if transport is > 48 hours Enclose the specific clinical information form (R23-INTGB : Cystic fibrosis gene analysis (CFTR gene)) According to regulation, each request must ALWAYS be accompanied by a consent form signed by the patient and the prescribing pathologist The urine creatinine level, essential information for the result interpretation, is Forms required, please contact Specimen reception	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	13 days
Cystine	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Urine White Top Universal - Ref: UNI0003C 2 x containers early morning urine (Fasting)	Sample must be frozen immediately	<1 hour. Once frozen samples stable for 1 month	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Cytogenetics: Chromosome Analysis / Karyotyping	Accredited	Eurofins Biomnis France	Heparin Whole Blood Lithium Heparin (non gel) - Ref: Ref: 367883 (2mL)	Refrigerated (+4°C)	<4 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	3 weeks
Cytogenetics: Chromosome Analysis / Karyotyping	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Fetal or placental tissue RPMI	Ambient	<4 days 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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	3 weeks
Cytogenetics: Chromosome Analysis / Karyotyping Paediatric (age <5 years)	Not Accredited	Department of Clinical Genetics, CHI Crumlin	Heparin Whole Blood Lithium Heparin (non gel) - Ref: Ref: 367883 (2mL)	Refrigerated (+4°C)	<4 days refrigerated	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Crumlin Department of Clinical Genetics Request form	10 weeks
Cytomegalovirus (CMV – PCR)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	EDTA Plasma 2x K2EDTA - Ref: 368857 (8mL)	Sample must be spun and frozen immediately	2-8°C for 6 hours/ plasma -20°C	Specimens must be delivered directly to a staff member within 3 hours of phlebotomy.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-3 weeks
Cytomegalovirus (CMV) IgG / IgM Antibodies	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 upspun. <4 days spun and refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 weeks
Cytomegalovirus (CMV) –Urine	Not Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Urine White Top Universal - Ref: UNI0003C Freshly voided urine Sterile Universal	Refrigerated (+4°C)	2-8°C; long term - 20°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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-3 weeks
D-Dimers	Accredited	Haematology. Mayo University Hospital	Citrated Plasma Sodium Citrate - ref: 363095 (2.7mL) Sodium Citrate paed - ref: 41.1350.005 (1.3mL)	Room Temperature	4 hours		Haematology Department MUH Request Form - H/LF/002	4 hours
Dehydroepiandrosterone (DHEA)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Dehydroepiandrosterone Sulfate (DHEAS)	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Dengue fever Antibodies	Not Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	Serum 2-8°C or - 20°C if not tested within 2 days.	By prior arrangement with the Consultant Microbiologist Comment: Available only in very specific circumstances and with prior approval of a Consultant Microbiologist	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-3 weeks

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Diamine oxydase (DAO) - activity	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Digoxin	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 48 hours refrigerated, <7 days frozen	Take specimen six hours post dose, Hypokalaemia is associated with an enhanced responseto digoxin. Potassium should always be measured when digoxin toxicity is suspected.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Dihydropyrimidine Dehydrogenase (DPD) Activity	Accredited	Purine Research Laboratories, St Thomas Hospital. London	EDTA Whole Blood K3 EDTA - Ref 368857 (4mL)	Refrigerated (+4°C)	<5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Direct Antiglobulin Test	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K ₂ EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Direct Antiglobulin Test (DAT)	Accredited	Blood Transfusion, Mayo University Hospital	EDTA Whole Blood K ₂ EDTA (cross match) (4mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	Blood Transfusion MUH Request form - BT/LF/001	2 Hours
Duchenne Muscular Dystrophy (DMD)	Accredited	MVZ Dr. Eberhard & Partner Dortmund via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (4mL)	Ambient	<4 days	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Echinococcus (Hydatidosis)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Echinococcus (Hydatid cyst) antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	If positive, the confirmation test is automatically performed. Available only in very specific circumstances and with prior approval of a Consultant Microbiologist.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Elastase	Accredited	Eurofins Biomnis Paris, France via Eurofins	Faeces Blue Top Stool Universal - Ref: UNI0039B (5g minimum)	Refrigerated (+4°C)	<5 days refrigerated	Enclose the specific clinical information form (R29-INTGB : Functional Coprology) - form required contact specimen receptoin Liquid stools are accepted but the dilution may result in underestimation of elastase levels. Use : small pot	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	13 days
Electron Microscopy	Not Accredited	Histopathology Department, Galway University Hospital	Biopsy	Place the biopsy in normal saline to maintain hydration and deliver to the laboratory immediately.	Send to lab 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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Elution	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Entamoeba histolytica Abs, serology (IF+ Hemagglutination) - Amoebic screen	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Enterobius vermicularis	Not Accredited	Medical Microbiology, Galway University Hospital	Slide Apply sellotape to anal area, fix to slide, send to Laboratory	Refrigerated (+4°C)	<7 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Enterovirus PCR (ECHO Virus)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Faeces Blue Top Stool Universal - Ref: UNI0039B	Refrigerated (+4°C)	2-8°C; long term - 20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 weeks
Epstein – Barr Virus (EBV) Antibodies	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 weeks
Epstein – Barr Virus (EBV) PCR	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	EDTA Plasma K3 EDTA - Ref 368857 (4mL)	Sample must be spun and frozen immediately	<3 hours. 2-8°C for 6 hours. Plasma -20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 weeks
Erythrocyte Membrane Antigen Analysis (EMA) (Hereditary Spherocytosis screening)	Accredited	Haematology Laboratory, CHI Crumlin	EDTA Whole Blood EDTA paediatric tube - Ref: 72001	Ambient	<48 hours ambient	Must reach referral lab within 48 hrs. Take samples on day of referral before 11.30 a.m. Mon to Thurs	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 weeks
Erythropoietin (EPO)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	< 3 hours. Once frozen samples stable for 5 months	Sample must be taken in the morning due to variation throughout the day	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
ESR (Automated)	Accredited	Haematology. Mayo University Hospital	EDTA Whole Blood K₂ EDTA - Ref 368857 (3mL) or EDTA Paediatric tube - Ref: 72001 (1.3mL)	Room Temperature 4°C	4 hours 24hours		Haematology Department MUH Request Form - H/LF/002	3 hours
Ethylene Glycol	Not Accredited	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Eurofins	Serum SST gel - Ref: 367954 (5mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Contact Consultant Chemical Pathologist (through Biochemistry Lab) who will advise as to the necessity for having the assay sent to Biomnis as an emergency	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Extended RBC Phenotyping	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Factor Inhibitor Studies	Not Accredited	Haematology Department, University Hospital Galway	Citrated Plasma 3x Sodium Citrate - ref: 363095 (2.7ml)	Spun and frozen within 2 hours.	<2 hours unspun. Once spun and frozen stable for 5 days.	Prior arrangement with coagulation laboratory necessary. Must fill bottle to mark.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Factor V Leiden Mutation	Accredited	National Centre for Haemophilia and Coagulation Diseases, St James Hospital	EDTA Whole Blood 1 x K3 EDTA - Ref 368857 (4mL) and Citrated Plasma 2x Sodium Citrate - ref: 363095 (2.7ml)	Refrigerated (+4°C)	<3 days refrigerated	Form required: 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. 1) Sample must be <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 This test is not generally performed during childhood unless specifically requested by a Consultant Paediatric Haematologist. The Coagulation Consultant on-call can be contacted through the hospital switchboard on 01 410 3000.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 weeks
Factor XIII	Accredited	Coagulation Laboratory, St James Hospital, Dublin	Citrated Plasma 3x Sodium Citrate - ref: 363095 (2.7ml)	Sample must be frozen immediately	Once frozen samples stable for 3 days	Samples must be stored and transported -20.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Faecal Occult Blood testing	Not Accredited	Microbiology, Mayo University Hospital	Faeces sample collected into NADAL VON MINDEN test cassettes	Perform the test as soon as possible after sample collection. Do not leave specimens at room temperature for prolonged periods of time. Store at 2-8°.	<7 days	Collected as per instructions with pack	Microbiology Department MUH Request form - M/LF/001	24 hours
Faeces –Microscopy, Culture and Antigen Detection	Not Accredited	Medical Microbiology, Galway University Hospital	Faeces Blue Top Stool Universal - Ref: UNI0039B (1-2g during acute phase of illness)	Refrigerated (+4°C)	<5 days refrigerated	: Shigella Spp. survival may be compromised @ 2-8°C – delay reduces isolation	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Familial Hypercholesterolaemia – comprehensive LDLR + APOB + PCSK9 + LDLRAP1 sequencing (Molecular Biology)	Accredited	The Doctors Laboratory, London via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Ambient	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	4 weeks

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Familial hyperparathyroidism or hypocalcaemic hypercalcaemia	Accredited	Royal Devon and Exeter Genetics lab, Barrack Rd, Exeter, Devon EX2 5DW	EDTA Whole Blood 2x K3 EDTA - Ref 368857 (4mL)	Ambient	<5 days	UKAS 8092	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Royal Devon & Exeter Genetics Request Form	1 month
Familial Mediterranean fever (FMF) - MEFV gene	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole blood K3 EDTA - Ref 368857 (5mL)	Ambient	<4 days	Sample must be refrigerated if transported >48 hours. Consent form is required. Contact Specimen reception to avail of this request and consent form.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	1 month
Fanconi's Anaemia (Chromosome breakage screen)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Heparin Whole Blood Lithium heparin (non-gel) - Ref: 367883 (5mL) Whole Blood	Ambient	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	13 days
Fatty Acids (Very Long Chains)	Accredited	Addenbrookes Hospital, Hills Rd., Cambridge CB2 0QQ, UK via Eurofins	EDTA Plasma K3 EDTA - Ref 368857 (4mL)	Sample must be spun and frozen immediately	<30 mins. Once frozen samples stable for 3 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	13 days
Ferritin	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<72 hours unspun at room temperature. Once spun and refrigerated sample is stable for 5 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 1 day Urgent: 1 day
Fetal Rh/K typing from Maternal blood (gestation at 16-20 weeks)(Molecular test)	Accredited	IBGRL Molecular Diagnostics NHS Blood and Transplant North Bristol Park Filton, Bristol via IBTS	EDTA Whole Blood Maternal sample: 3x K ₂ EDTA (cross match) (16mL) Partner: K2EDTA (cross match) (3mL)	Ambient	<48 hours 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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	14 days
Fetal RHD Screen (CFF DNA)	Not Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood 2 x K ₂ EDTA (cross match) (≥8mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	14 days
Fibrinogen	Accredited	Haematology, Mayo University Hospital	Citrated Plasma Sodium Citrate - ref: 363095 (2.7mL) Sodium Citrate paed - ref: 41.1350.005 (1.3mL)	Room Temperature	24 hours		Haematology Department MUH Request Form - H/LF/002	Routine: 2 hours Out-of hours: 1.5 hour
Filaria Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Fine Needle Aspirates (FNA) (of breast, thyroid, axilla, parotid, submandular, lymph node and Cysts)	Not Accredited	Histopathology Department, Mayo University Hospital	Fine Needle Aspirates (FNA)	Ambient	Fine Needle aspirate, to be placed directly into pre-filled 30 ml universal containing 10mls of CytoRichRRed Collection Fluid.	Superficial and deep seated lesions. Deep seated lesions that need ultrasonic, CT or fluoroscopic guidance may be required. Use a 22–25 gauge fine needle and a 10–20mL syringe for collection of specimen. Prepare a thin even smear on a clean microscope slide(s). Immediately after preparation, spray a complete even coating of Cell-Fix onto the slides from a distance of 25–30 cm (10–12 inches). Fixed slides will be dry between one and five minutes. Label, place in cassette and send to the laboratory. Alternately transfer the aspirate into Shandon Cytospin Collection Fluid (green fixative solution) and the lab will prepare the slides.	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
FISH Chronic Lymphocytic Leukaemia (CLL)	Sole Supplier	Department of Clinical Genetics, CHI Crumlin	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL) or Bone Marrow RPMI	Refrigerated (+4°C)	<48 hours refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Crumlin Department of Clinical Genetics Request form	21 days
Flecainide Acetate	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum Serum non gel - Ref: 367837 (2ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	1 individual aliquot for this analysis. Residual level sample (just before administration) Enclose the specific clinical information form (R13-INTGB : Medication quantification)	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Flow Cytometry (Immunotyping of Leukaemias and Lymphomas)	Not Accredited	Haematology Department, University Hospital Galway	EDTA Whole Blood K3 EDTA - Ref 368857 or Bone Marrow/ Lymph Node Biopsy RPMI	Refrigerated (+4°C)	<24 hours refrigerated	Send non-urgent samples Monday to Wednesday only. Prior arrangement with consultant Haematologist GUH. Medium is available from Histopathology ext 2564.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-5 days
FLT3 – Mutation (Blood)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood 2x K3 EDTA - Ref 368857 (9mL)	Refrigerated (+4°C)	<24 hours refrigerated	Sample must be taken before 11.30am only on Mon, Tues, Wed or Thurs. Arrange through Haematology Registrar, or Consultant Haematologist	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	20 days
FLT3 – Mutation (Bone Marrow)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	Bone Marrow RPMI (9mL)	Refrigerated (+4°C)	<24 hours refrigerated	Arrange through Haematology Registrar, or Consultant Haematologist. Medium is available from Histopathology ext 2564.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10-15 days
Folate	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<72 hours unspun at room temperature. Once spun and refrigerated sample is stable for 5 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 1 day Urgent: 1 day
Follicle stimulating hormone (FSH)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 14 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 days
Fragile X Chromosome	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL) whole blood	Ambient temperature or 4°C (if transport time >24 hrs)	<24 hours ambient. >24 hours refrigerated	Consent form must be completed, contact laboratory prior to taking sample	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	1-4 weeks

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Free light chains (Kappa and Lambda)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Free T4	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 1 day Urgent: 1 day
Fructosamine	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<12 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Full Blood Count	Accredited	Haematology, Mayo University Hospital	EDTA Whole Blood K ₃ EDTA - Ref 368857 (3mL) or EDTA Paediatric tube - Ref: 72001 (1.3mL)	4°C	48 hours		Haematology Department MUH Request Form - H/LF/002	Routine: 2 hours Out-of hours: 1 hour
Full RBC Genotype	Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K ₃ EDTA (cross match) (≥3mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	14 days
Galactomannan (Aspergillus Antigen) (BAL)	Accredited	Microbiology Department, St James Hospital	BAL White Top Universal - Ref: UNI0003C Sterile Container	Refrigerated (+4°C)	<24 hours refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Galactomannan (Aspergillus Antigen) (Blood)	Accredited	Microbiology Department, St James Hospital	Serum SST gel - Ref: 367954 (4mL)	Refrigerated (+4°C)	<24 hours refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Galactomannan antibodies	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (4mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Galactose	Not Accredited	Eurofins Biomnis France	EDTA Whole Blood K3 EDTA - Ref 368857 (1mL)	Ambient	<3 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Galactose-1- phosphate	Accredited	Birmingham Children's Hospital via Temple Street	Heparin Whole Blood Lithium Heparin (non gel) - Ref: Ref: 367883 (2mL)	Ambient	<24 hours	Take Monday to Wednesday only.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	
Gastrin	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	< 2 hours. Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Gastroenteritis screen, faeces; bioenteric	Accredited	Virology, Galway University Hospital	Faeces Blue Top Stool Universal - Ref: UNI0039B Fresh sample	Refrigerated (+4°C)	<4 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-7 days
Gastrointestinal tract Hormones (GIT Hormones): incl. <i>Gastrin, Insulin, Somatostatin, N-terminal Glucagon, C-terminal Glucagon, Pancreatic Polypeptide</i>	Accredited	Eurofins Biomnis France	Faeces Blue Top Stool Universal - Ref: UNI0039B Fresh sample	Sample must be frozen immediately	<1 hour. Once frozen samples stable for 5 days	Must fill bottle to mark. Send immediately to Biochemistry Laboratory or Specimen Reception Mayo University Hospital . Pre-analytical preparation (freezing) required before referral	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	N/A
Genetics - Centogene	Accredited	Centogene, GmbH, Am Strande 7, 18055 Rostock, Germany	Centocard	Ambient - allow to air dry of 2 hours	N/A	Please contact Specimen Reception 2573/2136 to avail of kits and request/consent forms. For queries on what panels are required, please contact SMS in Specimen Reception on 2136/2573.	Centogene Request Form and Consent form - available from Specimne Reception	N/A
Gentamicin	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<4 hours upspun at room temperature. Once spun and refrigerated sample is stable for 1 day.		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
GGT	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Glucagon	Accredited	Eurofins Biomnis Paris, France via Eurofins	EDTA Plasma K3EDTA (Aprotinine) - Ref: 361017 (1mL)	Sample must be spun and frozen immediately	<1 hour. Once frozen samples stable for 5 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-4 weeks
Glucose, Plasma	Accredited	Biochemistry, Mayo University Hospital	Fluoride Oxalate Fluoride Oxalate - Ref: 368920 (3mL)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days	>12 hr Fast. Serum must be received in lab within one-hour post venepuncture. Fluoride Oxalate should be used.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Glucose, Serum	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<4 hours unspun at room temperature.	>12 hr Fast. Serum must be received in lab within one-hour post venepuncture. Fluoride Oxalate should be used.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Glucose, Urine	Accredited	Biochemistry, Mayo University Hospital	Urine Urine Z tube (Urinalysis) Reference: 368501	Ambient	<2 hours at room temperature.	>12 hr Fast. Serum must be received in lab within one-hour post venepuncture. Fluoride Oxalate should be used.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Glucose-6-phosphate dehydrogenase (G6PD) Quantitation	Accredited	Centre for Laboratory Medicine & Molecular Pathology, St James' Hospital, Dublin 8, D01 NHY1	EDTA Whole Blood 2x K3 EDTA - Ref 368857 (4mL)	Refrigerated (+4°C)	<7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Glucose-6-phosphate dehydrogenase (G6PD) Screening	Accredited	Haematology Department, University Hospital Galway	EDTA Whole Blood K₂ EDTA - Ref 368857 (3mL) or EDTA Paediatric tube - Ref: 72001 (1.3mL)	Refrigerated (+4°C)	<7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Glycosaminoglycans (GAG) electrophoresis, urine	Accredited	Great Ormond Street Hospital, Great Ormond St., London WC1N 3JH, UK. via Eurofins	Urine 24 hour Urine Container Ref: 77.575.401 (50 mL)	Sample must be frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	13 days
Group & EI crossmatch	Accredited	Blood Transfusion, Mayo University Hospital	EDTA Whole Blood K₂EDTA (cross match) (6mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	Historical Blood Group	Blood Transfusion MUH Request form - BT/LF/001	1 Hour
Group & Screen	Accredited	Blood Transfusion, Mayo University Hospital	EDTA Whole Blood K₂EDTA (cross match) (6mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	Blood Transfusion MUH Request form - BT/LF/001	2 Hours
Group & Serological Crossmatch	Accredited	Blood Transfusion, Mayo University Hospital	EDTA Whole Blood K₂EDTA (cross match) (6mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	Historical Blood Group	Blood Transfusion MUH Request form - BT/LF/001	3 Hours
Group&DAT Cord/Newborn	Accredited	Blood Transfusion, Mayo University Hospital	EDTA Whole Blood K₂EDTA (cross match) (1mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	Blood Transfusion MUH Request form - BT/LF/001	2 Hours
Group, ABID & Crossmatch	Accredited	Blood Transfusion, Mayo University Hospital	EDTA Whole Blood K₂EDTA (cross match) (6mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	Blood Transfusion MUH Request form - BT/LF/001	3-5 Hours In-house
Growth Hormone	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Sample must be spun and frozen >8 hours	<8 hours	It should only be requested as part of a dynamic function test. In general, a random growth hormone measurement has very little diagnostic value.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Haemochromatosis – C282Y and H63D Genetic Mutations	Not Accredited	Eurofins Biomnis Ireland	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Ambient temperature or 4°C (if transport time >24 hrs)	<7 days refrigerated.	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	12 days
Haemoglobin A1c (HbA1C)	Not Accredited	Eurofins Biomnis Ireland	EDTA Whole Blood K3 EDTA - Ref 368857 (2mL)	Refrigerated (+4°C)	<7 days refrigerated whole blood.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Haemoglobinopathy Screen (Hb F, Hb A2, Hb H, Hb S, sickle cell screen, thalassaemia screen, haemoglobin electrophoresis) < 16 years	Accredited	Haematology Laboratory, CHI Crumlin	EDTA Whole Blood K3 EDTA - Ref 368857 (4mL) or EDTA Paediatric tube Ref: 72001 (1.3mL)	Refrigerated (+4°C)	<24 hours refrigerated whole blood.	PLEASE PROVIDE A SERUM SAMPLE FOR FERRITIN ASSAY AND ALSO INDICATION ON ETHNIC ORIGIN OF PATIENT Also provide a transfusion history as previous blood transfusions can effect results **	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Haemoglobinopathy Screen (Hb F, Hb A2, Hb H, Hb S, sickle cell screen, thalassaemia screen, haemoglobin electrophoresis) > 16 years	Accredited	Haematology Dept, St James Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (4mL) and Serum (Serum (non-gel) - Ref: 367837 (5mL)	Refrigerated (+4°C)	<24 hours refrigerated whole blood.	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Haemolytic Disease of the New-born (where maternal antibodies are implicated / suspected)	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood Mother: K₂EDTA (cross match) (6mL) Baby: K2EDTA (cross match) (1-3mL)	Ambient	<48 hours ambient. <7 days refrigerated whole blood.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Haemophilus influenzae B Antibodies (IgG)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 weeks
Haemophilus influenzae vaccinal Antibodies	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 weeks
Haemosiderin (Urine)	Not Accredited	Haematology Department, University Hospital Galway	Urine White Top Universal - Ref: UNI0003C First morning Urine	Refrigerated (+4°C)	<3 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-5 days
Hantavirus Antibodies	Not Accredited	National Virus Reference Laboratory (NVRL), UCDD, Dublin	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	2-8°C for 14 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Contact NVRL
Haptoglobin	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
HCG+β (Beta)	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<24 hours upsun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 1 day Routine: 3 hours Urgent: 1 hour

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
HCG+β (Beta)	Accredited	Biochemistry, Mayo University Hospital	Urine Urine Z tube (Urinalysis) Reference: 368501	Ambient	<24 hours at room temperature.		Biochemistry Department MUH Request Form - B/LF/001	External: 1 day Routine: 3 hours Urgent: 1 hour
HDL -Cholesterol	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days	>12 hr Fast.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Heinz Bodies	Not Accredited	Haematology Department, University Hospital Galway	EDTA Whole Blood K3 EDTA - Ref 368857 (4mL) (whole blood) or EDTA Paediatric tube - Ref: 72001 (1.3mL)	Refrigerated (+4°C)	<2 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Helicobacter pylori (Culture / biopsy)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Antral and/or fundal biopsies Portagerm H.pylori media - Ref: 42041	Refrigerated (+4°C)	<5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	19 days
Helicobacter pylori (Stool)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Faeces Blue Top Stool Universal - Ref: UNI0039B	Sample must be frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Helicobacter pylori IgG serology (Serum)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Heparin Induced Thrombocytopenia (HITS) Confirmation	Accredited	National Centre for Haemophilia and Coagulation Diseases, St James Hospital	Serum 2x Serum non gel - Ref: 367837 (5ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Hepatitis A IgM/IgM Antibody	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Hepatitis B Antibody/antigen	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Hepatitis B DNA / Viral Load	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (7mL)	Sample must be spun and frozen immediately	Long term -20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-3 weeks
Hepatitis C Antibody	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-5 days
Hepatitis C PCR / Viral Load / Genotype	Accredited	Virology, Galway University Hospital	EDTA Plasma K₂EDTASeparator - Ref: 367885 (7mL)	Sample must be spun and frozen immediately upon receipt in GUH	Once frozen samples stable for 5 days	RDU samples only	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Hepatitis C PCR / Viral Load / Genotype	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (7mL)	Sample must be spun and frozen immediately	<24 hours. Long term -70°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Hepatitis D Antibody	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	2-8°C 48 hours; otherwise -20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Hepatitis E Antibody	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	2-8°C 48 hours; otherwise -20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-4 weeks
Hereditary Spherocytosis Screen	Accredited	Department of Clinical Genetics, CHI Crumlin	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Ambient	<48 hours ambient		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Crumlin Department of Clinical Genetics Request form	4 weeks
Herpes simplex virus – PCR	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (7mL) or CSF White Top Universal - Ref: UNI0003C Sterile Container (0.5 mL)	Sample must be spun and frozen immediately	Serum: 2-8°C; long term -20°C to -80°C; CSF -80°C; Swab -20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Herpes simplex virus antibody	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (7mL)	Sample must be spun and frozen immediately	2-8°C for 7 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-7 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Herpes Type 1+2 IgG and IgM	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL) or CSF White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	Serum: <48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Histamine	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Plasma K3 EDTA - Ref 368857 (1mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
HLA antibody screen	Accredited	National Histocompatibility and Immunogenetics Reference laboratory (NHIRL), IBTS, St James's Street, Dublin	Serum SST gel - Ref: 367954 (7mL)	Ambient	<48 hours ambient		National Histocompatibility and Immunogenetics Reference laboratory IBTS request form (BT/EXT/241)	7 days
Homocysteine (Adult)	Accredited	Clinical Biochemistry, Galway University Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (4mL)	Sample must be frozen immediately	<1 hour on ice. Once frozen stable for stable for 4 years.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Human Epidermal Growth Factor Receptor 2 (HER2)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	17 days
Human epididymis protein 4 (HE4)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Human Immunodeficiency (HIV) 1&2 antibody/p24 Antigen	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (3mL) or Plasma PST gel - Ref 367962 (3mL)	Refrigerated (+4°C)	<48 upspun. <4 days spun and refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Human Immunodeficiency (HIV) Viral Load – PCR	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	EDTA Plasma K3 EDTA - Ref 368857	Sample must be spun and frozen immediately	15-30°C for 24 hours; 2-8°C for 5 days; long term -70°C	Specimen must be delivered to a microbiology staff member within 3 hours of phlebotomy	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Human Tlymphocyte Virus (HTLV-1 / 11)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	15-30°C <= 3 days; 2-8°C <= 14 days; >= 14 days -20°C	Only available in specific cases and following approval by the Microbiology staff	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-7 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Huntington's Disease (<i>exon 1 of the HTT gene</i>)	Not Accredited	Department of Clinical Genetics, CHI Crumlin	EDTA Whole Blood K3 EDTA - Ref 368857	Refrigerated (+4°C)	<4 days refrigerated	Clinical details must be provided which are consistent with a suspected diagnosis of HD.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Crumlin Department of Clinical Genetics Request form	Routine 12 weeks Urent 2 weeks
I.M. (Infectious Mononucleosis) Screen	Accredited	Haematology, Mayo University Hospital	EDTA Whole Blood K₃ EDTA - Ref 368857 (3mL) or EDTA Paediatric tube - Ref: 72001 (1.3mL)	4°C	48 hours		Hameatology Department MUH Request Form - H/LF/002	Routine: 8 hours Out-of hours: 4 hours
Idiopathic thrombocytopenic Purpura (ITP)	Accredited	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Filton, 500 North Bristol Park, Northway, Filton, Bristol, BS34 7QH	EDTA Whole Blood 3x K₃EDTA (cross match) (6mL) Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<4 days refrigerated	Prior arrangement with Blood Transfusion Laboratory is essential for immediate referral to Bristol.	3D Histocompatibility & Immunogenetics NHS Platelet Immunology	
IgD (<i>Immunoglobulins D</i>)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (5mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
IgE (Total)	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
IGHV Genes	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (3mL)	Refrigerated (+4°C)	<24 hours refrigerated	Sample must be taken before 11.30am only on Mon, Tues, Wed or Thurs.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	20 days
Immunofluorescence Biopsies	Not Accredited	Haemostasis and Thrombosis Lab, Belfast City Hospital	Tissue	No storage requirements indicated	Send to lab immediately	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	
Immunoglobulin gene rearrangements (<i>IgH</i>) (Blood)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (3mL)	Refrigerated (+4°C)	<24 hours refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form	10-15 days
Immunoglobulin gene rearrangements (<i>IgH</i>) (Bone Marrow)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	Bone Marrow RPMI (3mL)	Refrigerated (+4°C)	<48 hours refrigerated	Medium is available from Histopathology ext 2564.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form	10-15 days
Immunoglobulin gene rearrangements (<i>IgH</i>) (Fresh Biopsy)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	Fresh Biopsy	Refrigerated (+4°C)	<48 hours refrigerated	Please contact Histology Depaerment for collection cotainer	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form	10-15 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Immunoglobulin gene rearrangements (IgH) (Paraffin Sections)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	Paraffin embedded tissue block	Refrigerated (+4°C)	<48 hours refrigerated	Please contact Histology Department for collection container	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form	10-15 days
Immunoglobulins IgG / IgA / IgM and Serum Protein Electrophoresis	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Immunophenotyping	Not Accredited	Haematology Department, University Hospital Galway	EDTA Whole Blood K3 EDTA - Ref 368857 or Bone Marrow/ Lymph Node Biopsy RPMI	Refrigerated (+4°C)	<24 hours refrigerated	Prior arrangement with Consultant Haematologist or SPR. Send non-urgent samples Monday to Wednesday only. Medium is available from Histopathology ext 2564.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-5 days
Infliximab (Drug Levels & Antibody)	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated	Send as soon as possible within 24 hours.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Influenza A virus	Accredited	Medical Microbiology, Galway University Hospital	Respiratory Swab UTM-RT Viral Swab - Ref: UTM-RT	No storage requirements indicated		Seasonal availability only - Community and Nursing homes	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-3 days
Inhibin A	Accredited	Northern General Hospital, Sheffield Teaching Hospitals Foundation Trust via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 weeks
Inhibin B	Accredited	Northern General Hospital, Sheffield Teaching Hospitals Foundation Trust via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 weeks
INSR-related type A insulin resistance	Accredited	Royal Devon and Exeter Genetics lab, Barrack Rd, Exeter, Devon EX2 5DW	EDTA Whole Blood 2x K3 EDTA - Ref 368857 (4mL)	Ambient	<5 days	UKAS 8092	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Royal Devon & Exeter Genetics Request Form	1 month
Insulin	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Sample must be spun and frozen immediately	<1 hour unspun. Once frozen samples stable for 7 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Insulin Like Growth Factor 1 (IGF-1) Somatomedin	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Sample must be spun and frozen >24 hours	<24 hours	Fasting sample.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Insulin Total, serum	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	<1 hour refrigerated. Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Insulin-like Growth Factor Binding Protein 3 (IGFBP-3)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	< 1 hour. Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Interleukin 10 (IL10)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	15 days
Interleukin 2 (IL2)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	15 days
Interleukin 2 Receptor (IL2R)	Not Accredited	Eurofins Biomnis France	EDTA Plasma K3 EDTA - Ref 368857 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	15 days
Interleukin 5 (IL5), EDTA plasma (EIA)	Not Accredited	Eurofins Biomnis France - Referred in Lyon Sud Hospital	EDTA Plasma K3 EDTA - Ref 368857 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	15 days
Interleukin 6 (IL6)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	<24 hours		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	15 days
Intraocular Fluids / Corneal Scrapings	Accredited	Medical Microbiology, Galway University Hospital	Pre-inoculated media	Ambient	<24 hours	Contact Microbiology Laboratory to collect fresh culture plates and slide for corneal scrapings. Deliver to Laboratory immediately.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Iodine	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Urine White Top Universal - Ref: UNI0003C (10 mL) Early morning urine or If screening for excess 24 hour Urine Container Ref: 77.575.401 Specify Total Volume or if for Occupational Purposes White Top Universal - Ref: UNI0003C Urine sample at the end of a shift	Refrigerated (+4°C)	<4 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Iron	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Iron	Not Accredited	Eurofins Biomnis Ireland	Urine 24 hour Urine Container Ref: 77.575.401 (5 mL)	Refrigerated (+4°C)	<4 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Itraconazole	Accredited	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Eurofins	Serum SST gel - Ref: 367954 (5mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	13 days
JAK – 2 Exon 12 Mutation	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood 3x K3 EDTA - Ref 368857 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 weeks
JAK – 2 Mutation (Blood)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood 3x K3 EDTA - Ref 368857 (4mL)	Refrigerated (+4°C)	<48 hours refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10-15 days
JAK – 2 Mutation (Bone Marrow)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	Bone Marrow RPMI (9mL)	Refrigerated (+4°C)	<48 hours refrigerated	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10-15 days
Joint Aspirates - Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	Joint Aspirates 1.0 – 20 mL fresh specimen in a universal container. Do not use fixative.	Refrigerate overnight if necessary	Joint aspirates, Shandon cytospin fluid added upon arrival in histology lab	Specify if cytology or crystal analysis is required. Send crystal analysis to histopathology. Indicate clinical history on test requisition and reason for test.	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Joint Fluid – Uric Acid Crystals	Not Accredited	Histopathology Department, Mayo University Hospital	Joint Fluid – Uric Acid Crystals Fresh joint fluid 1.0 – 20 mL fresh specimen in a universal container. Do not use fixative.	Refrigerate overnight if necessary	Joint Fluid, received as fresh fluid, Shandon cytospin fluid added upon arrival in histology lab	Indicate clinical history on test requisition and reason for test.	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
KBT Post Delivery	Accredited	Blood Transfusion, Mayo University Hospital	Maternal Sample EDTA Whole Blood K ₂ EDTA (cross match) (6mL) Baby Sample EDTA Whole Blood K ₂ EDTA (cross match) (1mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	Blood Transfusion MUH Request form - BT/LF/001	3 days
KBT Sensitising Event	Accredited	Blood Transfusion, Mayo University Hospital	Maternal Sample Serum SST gel Ref: 367954 (6mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	Blood Transfusion MUH Request form - BT/LF/001	3 days
Ketones (Beta-hydroxybutrate, Acetoacetate, pyruvate)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<1 hour.	Should be performed on capillary samples using POCT device on ward. Can be sent to GUH for urgent requests.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Urgent: 2 hours Priority: 3 hours Routine: 4 days
Ketones (Methyl ethyl ketone)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Urine Glass container with PTFE stopper (10mL)	Refrigerated (+4°C)	<3 days refrigerated	Specimen reception MUH to supply special glass container	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Kirsten rat sarcoma virus (KRAS) <i>(Colorectal Panel)</i>	Not Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	Tissue	Refrigerated (+4°C)	<24 hours	Please contact Histology Department for collection container. Request form arrange via consultant pathologist.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form	10 days
Kirsten rat sarcoma virus (KRAS) Mutation analysis	Accredited	Haemostasis and Thrombosis Lab, Belfast City Hospital	Tissue	Refrigerated (+4°C)	<24 hours	Please contact Histology Department for collection container. Request form arrange via consultant pathologist.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5-10 days
Lactate	Accredited	Biochemistry, Mayo University Hospital	Fluoride Oxalate Fluoride Oxalate - Ref: 368920 (3mL)	Ambient	<4 hours unspun at room temperature.	Please send to Lab promptly. Must be received in lab within 4 hrs post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Lactate Dehydrogenase (LDH)	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3mL)	Ambient	<4 hours unspun at room temperature. Once spun and refrigerated sample is stable for 3 days	Please send to Lab promptly. Must be received in lab within 4 hrs post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Lamotrigine <i>(Lamictal®)</i>	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum Serum non gel - Ref: 367837 (2ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Lead	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Heparin Whole Blood Sodium Heparin - Ref 3678676 (5mL) or Urine White Top Universal - Ref: UNI0003C (4mL)	Refrigerated (+4°C)	Whole blood samples stable for 7 days refrigerated. Urine <4 days refrigerated.	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 www.biomnis.com	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Lead (Urine)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Urine White Top Universal - Ref: UNI0003C (20 mL) or 24 hour Urine Container Ref: 77.575.401 End of working shift Urine	Refrigerated (+4°C)	<7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Legionella (serotype 1 to 6) total Abs, screening	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Legionella (serotype 1 to 6) total Antibodies, confirmation	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Legionella (Sputum/BAL)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	BAL/Sputum/Puncture fluid White Top Universal - Ref: UNI0003C (500 µL minimum)	Refrigerated (+4°C)	<4 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	11 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Leptin	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 weeks
Leptospira IgM	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	2-8°C for 2 days; >2 days -20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-3 weeks
Levetiracetam (Keppra®)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum Serum non gel - Ref: 367837 (2ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Lipase	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Lipoprotein (a) (Lpa)	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (3mL) or Plasma PST gel - Ref:367962 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 day
Listeria monocytogenes	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (2mL) or CSF White Top Universal - Ref: UNI0003C (500 µL minimum)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Lithium	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<24 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days	Must be received in lab on same day post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Lupus Anticoagulant Screen	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma 2x Sodium Citrate - ref: 363095 (2.7ml)	Sample must be frozen immediately	<3 hours. Once frozen samples stable for 3 days	Must be received in lab within 3 hours of phlebotomy for pre-analytical preparation. Samples prepared as per Thrombophilia Screen	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 weeks
Luteinizing hormone (LH)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 75days.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 days
Lymphocyte subsets CD3 (T cell) CD4 (T helper) CD8 (T cytotoxic) CD19 (B cell) CD16/56 (NK cell)	Accredited	Immunology, Galway University Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Ambient	<24 hours	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Lysosomal Enzymes (Plasma and White Cell Enzyme Screen) (Screen for Hurler's)	Accredited	Willink Unit, Royal Manchester Children's Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (4mL)	Ambient	<72 hours	Contact Haematology laboratory MUH prior to specimen collection. Referred Mon-Wed only, external request form to be completed	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 weeks
M.P.L. Exon 10 Mutation	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood 2x K3 EDTA - Ref 368857 (4mL)	Ambient	<4 days refrigerated	Send Monday to Wednesday before 11.00am.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	20 days
Magnesium	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<24 hours unspun at room temperature. Once spun and refrigerated sample is stable for 3 days	Please send to Lab promptly. Must be received in lab on same day post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Magnesium (Urine)	Accredited	Clinical Biochemistry, Galway University Hospital	Urine 24 hour Urine Container Ref: 77.575.401 (non acidified)	Refrigerated (+4°C)	<3 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Malaria (Confirmation)	Accredited	Malaria reference laboratory (Malaria RL), London School of Hygiene and Tropical Medicine, Keppel Street, London, WC1E 7HT	EDTA Whole Blood K3 EDTA - Ref 368857 (4mL)	Refrigerated (+4°C)	<4 days refrigerated	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-4 days
Malaria Screen	Accredited	Haematology, Mayo University Hospital	EDTA Whole Blood K₃ EDTA - Ref 368857 (3mL)	4°C	48 hours		Haematology Department MUH Request Form - H/LF/002	3 hours
Manganese	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Heparin Whole Blood Sodium Heparin - Ref 3678676 (3mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Measles IgM / IgG antibody	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 upspun. <4 days spun and refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 weeks
Measles PCR	Not Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Respiratory Swab UTM-RT Viral Swab - Ref: UTM-RT or Oral fluid (OraCol swab)	Ambient	2-8°C for 7 days; long term -70°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
MECP2 gene analysis	Accredited	All Wales Medical Genetics Service, Institute of Medical Genetics, University Hospital of Wales Cardiff and Vale LHB via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	6 weeks
Meningococcal antibodies Neisseria meningitidis	Not Accredited	Irish Meningitis and Sepsis Reference Laboratory (IMsRL), CHI Temple St	CSF White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	<24 hours	Sample to be handed to Microbiology MUH staff member - slopes to be prepared by micro MUH	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Meningococcal PCR - CSF <i>Neisseria meningitidis</i>	Accredited	Irish Meningitis and Sepsis Reference Laboratory (IMsRL), CHI Temple St	CSF White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	<24 hours	Sample to be handed to Microbiology MUH staff member	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Meningococcal PCR - EDTA <i>Neisseria meningitidis</i>	Accredited	Irish Meningitis and Sepsis Reference Laboratory (IMsRL), CHI Temple St	EDTA Plasma K3EDTA - Ref: 368857	Refrigerated (+4°C)	<24 hours	Sample to be handed to Microbiology MUH staff member	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Mercury	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	EDTA Whole Blood 4x K3 EDTA - Ref 368857 (5mL) or Urine White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Metanephrine - free (Blood) (<i>Methoxylated derivatives of Catecholamines</i>)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Heparin Plasma 2x Lithium heparin (non-gel) - Ref: 367883 (2mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Fasting sample	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Metanephrine - urine			Refer to Catecholamines and Metabolites				Pathology Referral Request form - Dark Blue form (PATH/LF/001)	N/A
Metformin (Glucophage®)	Not Accredited	Eurofins Biomnis France - Referred in Lyon Sud Hospital	Serum SST gel - Ref: 367954 (4mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	13 days
Methotrexate (Maxtrex)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum Serum non gel - Ref: 367837 (5ml)	Refrigerated (+4°C)	<48 hours unspun. <4 days spun	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Methylmalonic Acid (Serum)	Accredited	Labor Volkman via Eurofins	Serum SST gel - Ref: 367954 (4mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Methylmalonic Acid (Urine)	Accredited	Labor Volkman via Eurofins	Urine 24 hour Urine Container Ref: 77.575.401 (15mL aliquot required) or Early morning urine (child) White Top Universal - Ref: UNI0003C	Sample must be frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Microalbumin (Urine Albumin) (ACR)	Not Accredited	Roscommon University Hospital	Urine Urine Z tube (Urinalysis) Reference: 368501	Refrigerated (+4°C)	<7 days refrigerated	Date of collection must be stated on the request form	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day from receipt in RUH
Micropolyspora faenii (Farmer's Lung confirmation)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Microscopy and culture of urine samples (Internal MUH Users)	Not Accredited	Microbiology, Mayo University Hospital	Urine White Top Universal (with or without Boric acid preservative)- Ref: UN10003C (Minimum 20mL in boric acid container, minimum 2mL in plain sterile universal)	If processing is delayed then refrigeration is preferable to storage at ambient temperature	<48 hours plain universal <96 hours universal with boric acid	Internal users	Microbiology Department MUH Request form - M/LF/001	Microscopy: 4 hours Culture: 2-3 days
Microscopy and culture of urine samples (External Service Users)	Not Accredited	Eurofins Biomnis Ireland	Urine White Top Universal (with or without Boric acid preservative)- Ref: UN10003C (Minimum 20mL in boric acid container, minimum 2mL in plain sterile universal)	If processing is delayed then refrigeration is preferable to storage at ambient temperature	48 hours @ 2-8°C Where there is a delay >48 hours the use of sterile urine containers with boric acid preservative may be beneficial this will increase the sample stability to 96hours.	External Service Users	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	24h for a negative result. 48h for a positive result. *Excludes Sundays and Bank Holidays
Microscopy and sensitivity of Blood Culture	Accredited	Microbiology, Mayo University Hospital	Blood Culture Bottles (Paediatric: 4mLs) (Adult: 10mLs)	Store at room temperature until transport to Microbiology Department is arranged	Deliver to Microbiology as soon after collection as possible. Target to have on Blood culture monitoring instrument within 4 hours of venepuncture.	Collection as per instructions on blood culture packs.	Microbiology Department MUH Request form - M/LF/001	New sample: 4 hours Negatives: 6 days aerobic, 14 days anaerobic and paediatric vials Positives: gram stain 2 hours, 24 hours identification and sensitivity, 48 hours final
Microscopy, culture and sensitivity of Cerebrospinal fluid	Accredited	Microbiology, Mayo University Hospital	CSF 3x White Top Universal - Ref: UN10003C (Minimum 1mL in each container)	Room temperature	Hand deliver to Microbiology department as soon after collection as possible.	Collect specimens preferably before antimicrobial therapy is started. Sample for Xanthochromia; 1ml must be collected directly into a darkened container which is available from the Microbiology Lab.	Microbiology Department MUH Request form - M/LF/001	Microscopy: 1 hour Culture: 3 days
Microscopy, culture and sensitivity investigation of fluid samples [MUH Internal Users]	Accredited	Microbiology, Mayo University Hospital	Fluids including but not limited to; Ascites, Pleural, Synovial (joint), Pericardial, Amniotic, hydrocele, Drain fluids e.g. pigtail fluids etc (5mLs)	If processing is delayed, refrigeration is preferable to storage at ambient temperature.	Specimens to be delivered to Microbiology on day of collection	Minimum volume of 1ml.	Microbiology Department MUH Request form - M/LF/001	3 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Microscopy, culture and sensitivity investigation of fluid samples [MUH External Users]	Not Accredited	Eurofins Biomnis Ireland	Fluids including but not limited to; Ascites, Pleural, Synovial (joint), Pericardial, Amniotic, hydrocele, Drain fluids e.g. pigtail fluids etc (5mLs)	If processing is delayed, refrigeration is preferable to storage at ambient temperature.	Specimens to be delivered to Microbiology on day of collection	External Service Users. Minimum volume of 1ml.	Microbiology Department MUH Request form - M/LF/001	*5d for a negative result. 6d for a positive result. Preliminary results available on request.
Mirtazapine	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	9 days
Molecular investigations	Accredited	Microbiology, Mayo University Hospital	Nasopharyngeal swab, BAL or Sputum for certain assays NPSW send in UTM [3ml] available from Microbiology Department Expectarated/suctioned Sputum, Brochoaveolar lavage	Store at room temperature for up to 2 days and then store at 2-8° for up to 7 days.	<7 days	Proper specimen collection, storage, and transport are critical to the performance of this test.	Microbiology Department MUH Sars CoV- 2 Request form - M/LF/033	Rapid Platform: 1 day Batch Platform: 36 hours
Molybdenum	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Heparin Plasma Sodium Heparin - Ref 3678676 (2mL)	Refrigerated (+4°C)	<48 hours. Once samples are spun and separated smaples are stable for 5 days.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Molybdenum (Urine)	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Urine White Top Universal - Ref: UNI0003C (2mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Monoclonal Antibody Interference	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
MPN Panel	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood 3x K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days refrigerated	If stored at 4°C may be held overnight or over week end.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	20 days
MTHFR Mutation c677T	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Ambient temperature or 4°C (if transport time >24 hrs)	<24 hours ambient. >24 hours refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	12

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Mucopolysaccharidosis (MPS) Enzyme Assay (<i>α</i> -iduronidase, Iduronate sulphatase, Heparan sulphamidase, <i>α</i> -N-acetylglucosaminidase, Acetyl-CoA: <i>α</i> -glucosaminide N-acetyltransferase, Galactose-6-sulphatase, <i>β</i> -galactosidase, Arylsulphatase B, <i>β</i> -glucuronidase & Multiple sulphatases)	Accredited	Willink Unit, Royal Manchester Children's Hospital	EDTA Plasma 9x K ₃ EDTA - Ref 368857 (5mL)	To reach the laboratory within 72 hours of sampling.	<72 hours	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Mucopolysaccharidosis (MPS) Screen (2-D electrophoresis of GAGs, Oligosaccharide screen & Quantitative sialic acid)	Accredited	Willink Unit, Royal Manchester Children's Hospital	Urine White Top Universal - Ref: UNI0003C (10mL) Fresh Urine	To reach the laboratory within 72 hours of sampling.	<72 hours	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-4 weeks
Mumps IgG / IgM antibody	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	2-8°C for 9 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Mumps Investigation	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Swab ORACOL - Saliva Collection System (Clear Cap) Ref: S10	Ambient	Long term -20°C	Note: if urine to be tested, NVRL must be contacted directly as urine is only tested by specific request and on agreement with NVRL.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5-7 days
Muscle Biopsies	Accredited	Haemostasis and Thrombosis Lab, Belfast City Hospital	Fresh tissue	Immediate dispatch to laboratory where tissue pieces are frozen / formalin fixed.	<1 hour	Please notify the Histopathology Department (ext. 2564) at least 24 hours in advance and contact for collection container.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	
Mycobacteria Testing (BAL)	Accredited	Medical Microbiology, Galway University Hospital	BAL/Sputa White Top Universal - Ref: UNI0003C Sterile Container	Refrigerated (+4°C)	<3 days	If required as urgent, please contact Specimne Reception on 2573 to facilitate urgent referral to GUH. Specimen must be hand delivered to Specimen reception staff and signed for. Please ensure to complete emergency test request form or referral test request form and tick urgent.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6-7 weeks
Mycobacteria Testing (Blood Culture/Bone Marrow)	Accredited	Medical Microbiology, Galway University Hospital	Blood Culture / Bone Marrow aspirate BD BACTEC Myco/F Lytic Culture vials. REF: 442288	Refrigerated (+4°C)	<3 days	Contact Microbiology for collection conainers	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6-7 weeks
Mycobacteria Testing (Fluid/tissue)	Accredited	Medical Microbiology, Galway University Hospital	Fluid/Tissue White Top Universal - Ref: UNI0003C Sterile Container container Include clotted material	Refrigerated (+4°C)	<3 days	• Include clotted material	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6-7 weeks

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Mycobacteria Testing (Urine)	Not Accredited	Medical Microbiology, Galway University Hospital	Urine 100mL Universal Containers - Ref: 75.562.105 Early morning urine	Refrigerated (+4°C)	<3 days	<ul style="list-style-type: none"> • Prior arrangement only - contact the Microbiology laboratory for the Microbiology container. • The mycobacteria culture system is not validated for processing urine specimens. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6-7 weeks
Mycology	Not Accredited	Medical Microbiology, Galway University Hospital	Skin swab Amies Clear (M40-A2) Medium Transport swab Ref: TS/5-17 Tissue / pus White Top Universal - Ref: UNI0003C Sterile container Hair/ Nail clippings /Skin scrapings Dermamark 2000 Fungal Envelopes - Ref: DMK202	Refrigerated (+4°C)	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5-6 weeks
Mycophenolate (Cellcept®)	Accredited	Eurofins Biomnis Paris, France via Eurofins	EDTA Plasma K3 EDTA - Ref 368857 (4mL)	Sample must be spun and refrigerated immediately	<1 hour unspun. <4 days spun and refrigerated	<p>Mandatory clinical information sheet available in Specimen Reception:</p> <ul style="list-style-type: none"> - R13: for unic drug level assesment - R31: for Calculations of Airc under the curve (AUC). R31 Form MUST accompany one or several files. It must be completed entirely. <p>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.</p> <p>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.</p>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Mycoplasma genitalium (PCR)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Urine White Top Universal - Ref: UNI0003C First micturation urine (no preservatives) Anogenital swab	Refrigerated (+4°C)	2-8°C for 30 days	Swab samples require the use of a virus transport medium supplied upon request.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 weeks
Mycoplasma pneumoniae (BAL)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	BAL White Top Universal - Ref: UNI0003C (0.5 mL minimum)	Refrigerated (+4°C)	2-8°C if tested within 24 hours; otherwise - 20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Mycoplasma pneumoniae (CSF)	Not Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	CSF White Top Universal - Ref: UNI0003C (1mL minimum)	Sample must be frozen immediately	Store at -20°C	Special arrangements must be made with NVRL Clinical if this test is required	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Mycoplasma pneumoniae antibody IgG and IgM	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	2-8°C for 24 hours; long term -20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 weeks
Mycoplasma pneumoniae PCR	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Respiratory Swab UTM-RT Viral Swab - Ref: UTM-RT	Refrigerated (+4°C)	2-8°C for 7 days; long term -70°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
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		Refer to individual tests for specimen requirements	No storage requirements indicated	Refer to individual tests		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	N/A
Myoglobin, serum	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Myoglobin, urine	Accredited	Eurofins Biomnis Paris, France via Eurofins	Urine White Top Universal - Ref: UNI0003C (24hour or random)	Sample must be frozen immediately	< 1 hour. Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Myosite Marker Antibodies (Myositis)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Myotonic Dystrophy type 2 (ZNF9 Gene); Molecular diagnosis of PROMM	Accredited	All Wales Medical Genetics Service, Institute of Medical Genetics, University Hospital of Wales Cardiff and Vale LHB via Eurofins	Heparin Whole Blood Lithium heparin (non-gel) - Ref: 367883 (5mL)	Refrigerated (+4°C)	<4 days		Pathology Referral Request form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	30 days
Neonatal Alloimmune Thrombocytopenia (NAITP) <i>Platelet antibody screen</i>	Accredited	NHSBT Histocompatibility and Immunogenetic Department Blood and Transplant, 500 North Bristol Park, North Way, Filton, BRISTOL via NHIRL IBTS	EDTA Whole Blood Mother: K ₂ EDTA (cross match) (6mL) + 10-20mL clotted Father: K ₂ EDTA (cross match) (6mL) Neonate: K ₂ EDTA (cross match) (1mL)	Refrigerated (+4°C)	<48 hours ambient. <7 days refrigerated.	Discuss with IBTS Consultant /Registrar. Use specific request form from IBTS, contact the Blood transfusion Laboratory MUH	3D Histocompatibility & Immunogenetics NHS Platelet Immunology	21 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Neonatal and Pediatric Haemoglobinopathy Screen (Hb F, Hb A2, Hb H, Hb S, sickle cell screen, thalassaemia screen, haemoglobin electrophoresis)	Accredited	Haematology Laboratory, CHI Crumlin	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<3 days	Please provide indication on ethnic origin of patient in clinical details section. Include most recent FBC and Ferritin results for non-neonatal screens	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	14 days
Neurofibromatosis type 1 Gene (NF1G)	Accredited	All Wales Medical Genetics Service, Institute of Medical Genetics, University Hospital of Wales Cardiff and Vale LHB via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	30 days
Neuron Specific Enolase (NSE) (Biological Fluid)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Biological Fluid White Top Universal - Ref: UNI0003C (1 mL)	Sample must be frozen immediately	Once frozen samples stable for 5 days	<ul style="list-style-type: none"> Not to be performed on haemolysed sample 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. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Neuron Specific Enolase (NSE) (Serum)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (2mL) Non haemolysed serum	Sample must be spun and frozen immediately	<1 hour. Once frozen samples stable for 3 months	<ul style="list-style-type: none"> Centrifuge and settle within one hour following sampling Sample to be frozen within 1 hour. Home sampling is not advisable. Separator gel tubes must be centrifuged and the supernatant must be decanted before the freezing step 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. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Neutrophil Function Test (Oxidative Burst Test)	Not Accredited	Immunology, Galway University Hospital	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Ambient	<24 hours	<ul style="list-style-type: none"> Control sample must also be taken. Samples must be delivered to lab within 24 hours. Comment: Testing must be first discussed with immunology medical/scientific staff 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Newcastle work-up (Work up includes: Glucose, Ammonia, Lactate, Cortisol, Growth Hormone, Insulin, C-peptide, Quantitative Amino Acids, Acylcarnitine, Organic Acids, Beta-OH-Butyrate)			Refer to individual tests for test requirements	No storage requirements indicated	Refer to individual tests	<p>If clinically appropriate all children with hypoglycaemia or suspected hypoglycaemia (lab glucose of <2.6 mmol/L) should have the included investigations prior to treatment, especially dextrose infusion. NB - exclude patients with diabetes on insulin.</p> <p>Refer to individual tests for specimen requirements Please contact Biochemistry to inform when samples are to be sent to ensure samples are processed immediately.</p>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	N/A
Nickel	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Serum Serum non gel - Ref: 367837 (3ml) or Urine White Top Universal - Ref: UNI0003C (10 mL) end shift Urine sample	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	20 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Norovirus (Faeces)	Accredited	Medical Microbiology, Galway University Hospital	Faeces Blue Top Stool Universal - Ref: UNI0039B	Refrigerated (+4°C)	<5 days refrigerated	Tested only after consulting IPC or Microbiology teams. Samples will be rejected in MUH if not consulted with team.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 weeks
NPM1 gene	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	Bone Marrow RPMI (9mL)	Refrigerated (+4°C)	<3 days refrigerated	Sample must be taken before 11:30am only on Mon, Tues, Wed or Thurs. Medium is available from Histopathology ext 2564.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form	10-15 days
Oestradiol	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 5 days.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Urgent: 1 hour. Priority: 1 working day. Routine : 2 working days
Oestrone	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Olanzapine	Not Accredited	Labor Volkman, Germany via Eurofins	Heparin Plasma Lithium heparin (non-gel) - Ref: 367883 (2mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun, samples stable for 5 days	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)	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Oligoclonal bands (OCB) - CSF/Serum	Accredited	Immunology, Galway University Hospital	CSF White Top Universal - Ref: UNI0003C (0.5mL minimum) and Serum SST gel - Ref: 367954 (5mL)	No storage requirements indicated	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Sample must be received in the GUH Laboratory within 7 days of collection.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Organic Acids	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	Urine White Top Universal - Ref: UNI0003C (10mL) First early morning Urine (Fasting)	Sample must be frozen immediately	Once frozen samples stable for 12 days	Please note: It is critical to record clinical details and date and time sample taken otherwise sample will not be processed. Urine pH should be measured. Where the pH≥8.5, microbial contamination is suspected, continue to dispatch urine sample to CHI at Temple Street and please request a repeat urine sample on the patient.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	28 days
Osmotic Fragility	Not Accredited	Haematology Department, University Hospital Galway	Heparin Whole Blood 2x Lithium heparin (non-gel) - Ref: 367883 (5mL) (1 to be used as a control specimen)	Refrigerated (+4°C)	<24 hours	<ul style="list-style-type: none"> • Authorisation by Haematology SPR and arrangement with laboratory. • The specimen must reach the laboratory before 11:00 on day of analysis. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Ova / Cysts / Parasites	Not Accredited	Medical Microbiology, Galway University Hospital	Faeces Blue Top Stool Universal - Ref: UNI0039B	Refrigerated (+4°C)	<5 days refrigerated	<ul style="list-style-type: none"> • Cryptosporidium and Giardia detection by molecular technique. • Other ova and parasites are rarely detected in faeces. • Examination for other O&P is only performed when specific additional parasite is specified on the request form, accompanied by relevant clinical information. Delay > 2 h refrigerate @ 2-8OC. Ensure sample is in a leak proof laboratory container 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days for Cryptosporidium and Giardia molecular detection. 1 week for parasite concentration.

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Oxalic Acid, urine	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Urine 24 hour Urine Container Ref: 77.575.401 Acidified (2x tubes)	Refrigerated (+4°C)	<4 days refrigerated	<ul style="list-style-type: none"> The following is essential for the oxalic acid assay: 24-hour urine collection, keep refrigerated indication of diuresis volume 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: homogenise the entire diuresis very vigorously take a urine sample volume of 50 mL acidify this urine sample with the help of 6N hydrochloric acid homogenise the urine well after each addition of HCl before each pH testing measure pH with the help of pH paper or a pH meter. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Oxidative Burst Test	Accredited	Haematology Laboratory, CHI Crumlin	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Ambient - must reach lab within 4 hours of collection	<4 hours	<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>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
P1NP - Intact N-Terminal Propeptide of Type I Procollagen	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> 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. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Paracetamol	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<24 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days	Must be received in lab on same day post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Paraneoplastic Antibodies	Accredited	Immunology Dept, St James Hospital, Dublin	Serum Serum non gel - Ref: 367837 (3ml)	Sample must be spun, separated and refrigerated prior to sending to St James'.	<24 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	24 days
Parathormone Related Protein (PTH-RP)	Accredited	Eurofins Biomnis Paris, France via Eurofins	EDTA Plasma K3EDTA (Aprotinine) - Ref: 361017 (1mL)	Sample must be spun and frozen immediately	<1 hour. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> Sample on special tube (EDTA + Aprotinin) supplied on request from Biochemistry. Centrifuge at +4C and Freeze the plasma immediately. Alert and hand directly to laboratory specimen reception staff 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Parathyroid Hormone (PTH)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Sample must be spun and refrigerated immediately (if delivered within 2 days). Samples must be frozen if delivery longer than 2 days	As per Bio GUH: <24 hours unspun. <2 days spun and refrigerated. >2 days, samples need to be frozen. Once frozen samples stable for 5 days	Samples can be spun and refrigerated immediately. Samples stable for 2 days. If samples will not be delivered within the 2 days of collection, please spin and freeze immediately. All PTH samples must be spun and frozen over weekend and bank holidays.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Paroxysmal Nocturnal Haemoglobinuria (PNH) Screening	Not Accredited	Haematology Department, University Hospital Galway	EDTA Whole Blood K3 EDTA - Ref: 368857 (3mL)	Refrigerated (+4°C)	<24 hours	<ul style="list-style-type: none"> Requests for flow cytometry tests should only be received Monday –Thursday between 9am and 5pm unless prior arrangements have been made with Flow Cytometry. Samples must be received within 24 hours. Full clinical information and reason for request must accompany specimen. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-5 days
Parvovirus B19, IgG and IgM <i>Erythrovirus B19</i>	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hrs unspun. <4 days spun and refrigerated.	N/A	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Paternal Phenotyping	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
PCT	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<24 hours at room temperature. Once spun and refrigerated sample is stable for 2 days	Please send to Lab promptly.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 1 day Urgent: 1 day
Peritoneal Fluid – Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	Peritoneal Fluid 15 ml of fluid placed in pre-filled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid	Ambient	Peritoneal Fluid to be placed directly into pre-filled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid.	Shandon Cytospin Collection Fluid (green fixative fluid) [Available from the Histopathology Laboratory ext 2564]	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
PHD2, HIF 2 α , VHL Genes (Erythrocytosis Screen)	Accredited	Haemostasis and Thrombosis Lab, Belfast City Hospital	EDTA Whole Blood 2x K3 EDTA - Ref 368857 (5mL)	Ambient	<24 hours	Must reach Referral Lab within 24 hours of taking sample. Contact Haematology Lab MUH	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 weeks
Phenobarbital <i>(Alepsal®)</i>	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 6 months refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Phenothiazine <i>(Dibenzoazepine)</i>	Not Accredited	Eurofins Biomnis France - Referred in Lyon Sud Hospital	Serum Serum non gel - Ref: 367837 (2ml)	Refrigerated (+4°C)	<48 hours unspun. <5 days spun	<ul style="list-style-type: none"> Do not use tubes with separator gel. Form Required - Enclose clinical information form - available from Specimen Reception. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Phenylalanine <i>(Tyrosine)</i>	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Request form MUST include clinical details. Referring labs: separate prior to dispatch to CHI at Temple Street	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-3 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Phenylalanine (Dried blood Spot card)	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	Dried blood spot card - Sample Required: 2 full circles of blood on card	Air dry of 2 hours	<3 days	<ul style="list-style-type: none"> Air dry for 2 hrs. Avoid heat & humidity. Request form MUST include clinical details. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-8 days
Phenytoin (Epanutin)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 1 month refrigerated	<ul style="list-style-type: none"> Take specimen immediately before next dose (trough specimen) 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Phosphate	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<6 hours unspun at room temperature. Once spun and refrigerated sample is stable for 3 days	Must be received in lab within six hours post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Phosphate (Urine)	Accredited	Clinical Biochemistry, Galway University Hospital	Urine 24 hour Urine Container Ref: 77.575.401	Refrigerated (+4°C)	<7 days refrigerated	<ul style="list-style-type: none"> 24 hour urine collection. Used in conjunction with serum inorganic phosphate to calculate IpeGFR. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Phosphatidylethanol (PETH)	Accredited	Eurofins Biomnis Paris, France via Eurofins	EDTA Whole Blood K ₃ EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Phytanic Acid	Not accredited	Eurofins Biomnis France - Referred in "Groupement Hospitalier Est" in Lyon	EDTA Plasma K ₃ EDTA - Ref 368857 (2mL)	Sample must be spun and frozen immediately	<1 hour. Once frozen samples stable for 5 days	Sample to be frozen within 1 hour.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Pinworm	Not Accredited	Medical Microbiology, Galway University Hospital	Slide Apply sellotape to anal area, fix to slide, send to Laboratory	Delay > 2 h refrigerate @ 2-8C	<2 hours	N/A	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Plasma Viscosity	Accredited	Haematology Department, University Hospital Galway	EDTA Whole Blood 3x K ₃ EDTA - Ref 368857 (3mL)	Refrigerated (+4°C)	<2 hours	Must be received in laboratory within 2 hours of phlebotomy	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Platelet Aggregation Studies	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma 6x Sodium Citrate - ref: 363095 (2.7ml)	No storage requirements indicated	<4 hours	<ul style="list-style-type: none"> Prior authorization by Consultant Haematologist or SPR. Arrange with Coagulation laboratory before taking specimen. Patient must not take any anti-platelet medications for 1 week prior to test (incl. aspirin, NSAIDA, Clopidogrel/plavix, cough suppressants). Discard the first specimen when obtaining blood from patient as there may be some platelet activation present which will influence the test results. 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) 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Assay performed on day of appointment

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Platelet Antibody	Accredited	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Filton, 500 North Bristol Park, Northway, Filton, Bristol, BS34 7QH	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours unspun		3D Histocompatibility & Immunogenetics NHS Platelet Immunology	
Platelet Antigen Typing	Accredited	IBTS, St James's Street, Dublin	EDTA Whole Blood K ₂ EDTA (cross match) (6mL)	Refrigerated (+4°C)	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	
Platelet Refractoriness <i>HLA-A and -B</i>	Accredited	National Histocompatibility and Immunogenetics Reference laboratory (NHIRL), IBTS, St James's Street, Dublin	EDTA Whole Blood K ₂ EDTA (cross match) (6mL)	Ambient	<48 hours ambient	To be received by NHIRL within 48 hours of specimen collection	National Histocompatibility and Immunogenetics Reference laboratory IBTS request form (BT/EXT/241)	7 days
Pleural Fluid - Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	Pleural Fluid 15 ml of fluid placed in pre-filled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid	Ambient	Pleural Fluid to be placed directly into pre-filled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid.	Shandon Cytospin Collection Fluid (green fixative fluid) [Available from the Histopathology Laboratory ext 2564]	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Pneumococcal Total IgG antibodies <i>(Streptococcus pneumoniae)</i>	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Samples must be spun and separated and Refrigerated (+4°C)	<24 hours	• Where External Institutions cannot guarantee immediate delivery, samples must be centrifuged, separated and stored at 4°C. • Samples can then be transported, as soon as possible, to GUH for processing.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Pneumocystis jirovecii investigation	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	BAL (or induced sputum only) White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	2-8°C for 7 days; long term -70°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Poliovirus Total Antibody <i>(Neutritisation test)</i>	Accredited	Eurofins Biomnis France	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	N/A	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	15 days
Porphyrins (Faeces)	Accredited	Biochemistry Laboratory, St James's Hospital	Blue top Universal Container with spoon 10g Formed faeces in Universal Container. Protect from light.	Refrigerated (+4°C) * Refrigerate sample for 24 hours, if longer delay is expected, please freeze	<24 hours refrigerated. <5 days frozen	• Protect from light	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7-10 working days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Porphyrins (Plasma)	Accredited	Biochemistry Laboratory, St James's Hospital	EDTA Plasma 2x K3 EDTA - Ref: 368857 (4 mL) or Heparin Plasma Lithium Heparin - Ref: 367883 (2 sample x 4ml) Protect from light.	Samples must be spun and frozen immediately.	<1 hour	<ul style="list-style-type: none"> • Protect from light. • Send to lab without delay. • If samples can't be sent to laboratory immediately please separate sample and freeze. Form Required - Contact MUH Specimen Reception. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5-7 working days
Porphyrins (Red Blood Cell)	Accredited	Biochemistry Laboratory, St James's Hospital	EDTA Whole Blood 2x K3 EDTA - Ref 368857 (3mL)	Refrigerated (+4°C) up to 24 hours. >24 hours sample must be frozen .	<24 hours refrigerated. >24hours if frozen	<ul style="list-style-type: none"> • Whole blood. • Protect from light. • If a delay is expected please measure and send the Hct (haematocrit) value, as this may be required by the Porphrin laboratory. • Refrigerate sample for up to 24 hours, but if greater delay is expected (over weekend), freeze sample, send frozen ensuring the Hct is available. • Form Required - Contact MUH Specimen Reception. • 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. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 - 7 working days qualitative. If positive, further testing of 7-14 working days for quantitative results
Porphyrins (Urine)	Accredited	Biochemistry Laboratory, St James's Hospital	Urine White Top Universal - Ref: UNI0003C (20ml) (protected from light) (Ensure Urinary Creatinine is greater than 2 mmol/L)	Refrigerated (+4°C)	<7 days refrigerated. <1 month frozen	<ul style="list-style-type: none"> • Refrigerate sample for upto 24 hours, but if greater delay is expected (over weekend), take aliquote and freeze. • Form Required - Contact MUH Specimen Reception. • 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. • Analysis of ALA is no longer available routinely. Urine PBG is the key marker for diagnosing acute porphyria attacks. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 - 10 days
Potassium (K)**	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<4 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days	Must be received in lab within four hours post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Potassium (K), urine	Accredited	Biochemistry, Mayo University Hospital	Urine Urine Z tube (Urinalysis) Reference: 368501	Ambient	<96 hours at room temperature.	Must be received in lab within four hours post venepuncture.	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Prader Willi / Angleman Syndrome (15q11-13 Methylation), blood (FISH)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref: 368857 (5 mL)	Refrigerated (+4°C)	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	15 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Prealbumin <i>Transthyretin</i>	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours unspun. <5 days spun	• ALWAYS specify patients name and gender	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
ProBNP <i>NT-ProBNP</i> (External Users)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<24 hours unspun. Once spun samples stable for 5 days refrigerated.	External users	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Priority:1 working day. Routine: 2 working days
ProBNP <i>NT-ProBNP</i> (Internal Users)	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<24 hours unspun. Once spun samples stable for 5 days refrigerated.	Internal users only	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Procollagen III	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	• Centrifuge, Decant, freeze rapidly	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks (if dilution/control needed - TAT 4 weeks)
Progesterone	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<72 hours unspun. Once spun samples stable for 7 days refrigerated.	N/A	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Priority:1 working day. Routine: 4 working days
Proinsulin	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	• Do not use 10ml tube	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Prolactin	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 6 days.	N/A	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Priority:1 working day. Routine: 2 working days
Prostate-specific antigen (PSA) Free	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Protein C	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma Sodium Citrate - ref: 363095 (2.7ml)	Refrigerated (+4°C)	<3 hours	• Requests should be received in the laboratory within 2 hours of phlebotomy. • Details of anticoagulant therapy required. Must fill bottle to mark.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 weeks
Protein S and free protein S	Not Accredited	Haematology Department, University Hospital Galway	Citrated Plasma Sodium Citrate - ref: 363095 (2.7ml)	Refrigerated (+4°C)	<3 hours	• Requests should be received in the laboratory within 2 hours of phlebotomy. Must fill bottle to mark. Details of anticoagulant therapy required.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 weeks

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Prothrombin Gene Mutation analysis	Accredited	Haematology Dept, St James Hospital	EDTA Whole Blood K3 EDTA - Ref: 368857	Refrigerated (+4°C)	<3 days	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).	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 weeks
Prothrombin Time (PT)/INR	Accredited	Haematology, Mayo University Hospital	Citrated Plasma Sodium Citrate - ref: 363095 (2.7mL) Sodium Citrate paed - ref: 41.1350.005 (1.3mL)	Room Temperature	48 hours		Haematology Department MUH Request Form - H/LF/002	Routine: 2 hours Out-of hours: 1 .5 hour
PSA (Total)	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 1 day Urgent: 1 day
Quantiferon TB Test	Accredited	Microbiology, Mater Misericordiae University Hospital	Blood Quantiferon TB Gold kit - Ref: 622222	Refrigerated (+4°C)	<24 hours	* Special blood kit and request form required, available from Microbiology Laboratory Mayo University Hospital. * Incubated in MUH for 16-24 hours and spun before sending to mater.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	<2 days urgent 3-4 days routine
Quantification of Feto-Maternal Haemorrhage (FMH)	Not Accredited	Coombe Women and Infant's University Hospital (CWIUH) Cork Street, Dublin 8	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Ambient	<24 hours	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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Red Cell Folate	Accredited	Haematology Department, University Hospital Galway	EDTA Whole Blood K3 EDTA - Ref: 368857 (3mL) (1.0 mL Paediatric tubes are available).	Refrigerated (+4°C)	<8 hours	* Requests should be received in the laboratory within 8 hours of phlebotomy	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Red cell polyagglutination	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Reducing Sugars <i>Reducing Substances</i>	Not Accredited	Eurofins Biomnis Paris, France via Eurofins	Faeces Blue Top Stool Universal - Ref: UN10039B (20g minimum)	Refrigerated (+4°C)	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Renin (Direct)	Accredited	Clinical Biochemistry, Galway University Hospital	EDTA Plasma K3 EDTA - Ref 368857 (4mL)	Sample must be spun and frozen immediately	<72 hours	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Reticulocyte Count	Accredited	Haematology, Mayo University Hospital	EDTA Whole Blood K₃ EDTA - Ref 368857 (3mL) or EDTA Paediatric tube - Ref: 72001 (1.3mL)	4°C	48 hours		Haematology Department MUH Request Form - H/LF/002	3 hours
Retinol Binding Protein (RBP)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	N/A	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Reverse T3	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	<ul style="list-style-type: none"> • Attach the thyroid evaluation results. • Attach the clinical data. • 1 individual aliquot for this analysis. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 month
RHCE Variants Genotype	Not Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (≥3mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	21 days
RhD Blood Group, Anomaly Investigation (Serological) Cord/Neonate Only	Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (6mL) Cord Blood Sample	Ambient	<48 hours ambient. <7 days refrigerated.	Cord Blood Sample	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
RHD/RHCE Genotype	Not Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (≥3mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	14 days
Rheumatoid Factor IgM	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated	<ul style="list-style-type: none"> • Requests for Rheumatoid Factor will also be tested for Anti-CCP 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Rickettsioses (R. conorii, R. typhi)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> • Do not use 10ml serum tube 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Ristocetin CoFactor (RiCof)	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma 2x Sodium Citrate - ref: 363095 (2.7ml)	Samples must be spun and frozen immediately.	<3 hours	<ul style="list-style-type: none"> • Prior authorization by Consultant Haematologist or SPR. • Arrange with coagulation laboratory before taking specimen. • Must fill bottles to mark. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 weeks
Rubella IgG Antibody	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 upspun. <4 days spun and refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Rubella IgM Antibody	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 upspun. <4 days spun and refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Salicylate	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<24 hours at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - BLF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Schistosomiasis - confirmation (<i>Bilharzia</i>)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL) Do not use 10mL tube	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Schistosomiasis - screening (<i>Bilharzia</i>)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (2mL) Do not use 10mL tube	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	If positive, the confirmation test is automatically performed.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Schistosomiasis (Urine) (<i>Schistosoma haematobium</i>)	Not Accredited	Medical Microbiology, Galway University Hospital	Urine (On patients after recent travel to endemic area) White Top Universal - Ref: UNI0003C (Volume >10mL) The urine must be obtained between 10:00-14:00 on the day of testing.	Refrigerated (+4°C)	<2 hours. Once refrigerated samples stable for 4 days	<ul style="list-style-type: none"> 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. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Selenium	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Heparin Plasma Sodium Heparin - Ref 3678676 (3mL) or Urine White Top Universal - Ref: UNI0003C (20 mL) random Urine sample	Refrigerated (+4°C)	<48 hours. Once samples are spun and separated samples are stable for 14 days.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Serotonin	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Heparin Whole Blood 2x Lithium heparin (non-gel) - Ref: 367883 (2mL)	Sample must be frozen immediately	<1 hour. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> Individual aliquot for this analysis. Sample to be frozen within 1 hour. Home sampling is not advisable. 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 Note that taking antidepressants such as IRRS (serotonin reuptake inhibitors) may decrease the basal level of serotonin. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Serum Protein Electrophoresis	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 10 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Sex Hormone Binding Globulin (SHBG)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 8 days.	<ul style="list-style-type: none"> Female – only analysed where testosterone >1.2nmol/L. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Priority: 1 working day. Routine: 2 working days
Sex Hormone Binding Globulin (SHBG)	Not accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated	<ul style="list-style-type: none"> 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. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Sickle Screen (Sickledex)	Accredited	Haematology, Mayo University Hospital	EDTA Whole Blood 2x K ₃ EDTA - Ref 368857 (3mL)	10°C	45 days		Haematology Department MUH Request Form - H/LF/002	3 days
Single Nuclear Polymorphism (SNP) Microarray / CGH Array (Genetic Testing)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Eurofins Combined Genetic Test Request, Information and Consent Form	3 weeks
Single Nuclear Polymorphism (SNP) Microarray / CGH Array (Genetic Testing)	Accredited	Centogene, GmbH, Am Strande 7, 18055 Rostock, Germany	Centocard	Ambient - allow to air dry of 2 hours	N/A	Please contact Specimen Reception to avail of kits and request/consent forms	Centogene Request Form and Consent form - available from Specimne Reception	15 days
Sirolimus (Rapamune®)	Accredited	Eurofins Biomnis Paris, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days	Residual level sample (just before administration) Enclose the specific clinical information form (R13-INTGB : Medication quantification)	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Sodium (Na)	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Sodium (Na), urine	Accredited	Biochemistry, Mayo University Hospital	Urine Urine Z tube (Urinalysis) Reference: 368501	Ambient	<96 hours at room temperature.		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Sodium Valproate (Epilem)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun, samples stable for 7 days	Take specimen immediately before next dose (trough specimen)	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Sputum - Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	Sputum 0.5 – 20 mL spontaneous or induced fresh specimen collected into a 30 mL universal container	Refrigerate if necessary	Sputum, received as fresh fluid, AAF added in the histology lab	Indicate clinical history on test requisition and reason for test. Sputum must be deeply coughed from lungs. Avoid oral contamination and saliva. Early morning upon rising is the preferred collection time. Report: Cytopathological Diagnosis provided by Consultant Histopathologist including reporting of malignant and non-malignant cells and detection of infectious organisms.	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Squamous Cell Carcinoma (SCC) TA4 Antigen	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<7 days refrigerated unspun. Once spun samples stable for 1 month refrigerated	• Not to be performed on a haemolysed sample. • 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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Steroid Profile (urine)	Accredited	NHS Foundation Trust, London - Sent through Biomnis France	Urine 24 hour Urine Container Ref: 77.575.401 Laboratory: 50 mL 24hr Urine collection	Sample must be frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Sulphonylurea	Accredited	Berkshire & Surrey Pathology Services via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Always indicate the clinical context	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Sural Nerve Biopsies	Not Accredited	Histopathology Department, Galway University Hospital	Fresh tissue	Osmicated/ formalin fixed.	Send to lab immediately	<ul style="list-style-type: none"> 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. 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 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Histological diagnosis
Surgical Tissue Specimens for Histological Examination	Not Accredited	Histopathology Department, Mayo University Hospital	Surgical Tissue Formalin fixed tissue	Ambient	Surgical Tissue to be placed directly into containers with 10% NBF	Ensure the tissue is fully immersed in formalin.	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	7 days
Synovial Fluid – Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	Synovial Fluid 1.0 – 20 mL fresh specimen in a universal container. Do not use fixative.	Refrigerate overnight if necessary	Synovial Fluid, received as fresh fluid, Shandon cytospin fluid added upon arrival in histology lab	Specify if cytology or crystal analysis is required. Send crystal analysis to histopathology. Indicate clinical history on test requisition and reason for test.	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Syphilis (Treponema pallidum) antibodies	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 upspun. <4 days spun and refrigerated.	N/A	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-3 days
T3 (Free)	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> 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. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
T3 (Total)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 5 days.	<ul style="list-style-type: none"> Assay only available by request by prior agreement with GUH Chemical Pathologists 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Tacrolimus (Advagraf / Prograf)	Accredited	Clinical Biochemistry, Galway University Hospital	EDTA Whole Blood K ₃ EDTA - Ref 368857 (4mL)	Refrigerated (+4°C)	<7 days refrigerated whole blood	<ul style="list-style-type: none"> Collect sample pre-dose. State date/time of sample collections clearly on request form 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
TCR gene Rearrangement	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood K3 EDTA - Ref: 368857 (3ml) Bone marrow RPMI (3mL)	Refrigerated (+4°C)	<48 hours	<ul style="list-style-type: none"> Slides and Immunophenotyping / histology report required. 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. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	20 days
Testosterone	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL) Collected between 8-10am	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 7 days.	<ul style="list-style-type: none"> Collect sample between 08:00-10:00am 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	Priority: 1 working day. Routine: 2 working days
Tetanus Toxoid IgG Antibodies	Accredited	Immunology Dept, St James Hospital, Dublin	Serum Serum non gel - Ref: 367837 (5mL)	Samples must be spun and separated and Refrigerated (+4°C)	<24 hours	<ul style="list-style-type: none"> 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. Where External Institutions cannot guarantee immediate delivery, samples must be centrifuged, separated and stored at 4°C. Samples can then be transported, as soon as possible, to St. James's Hospital for processing. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	21 days
Thallium (Plasma)	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	EDTA Plasma K3 EDTA - Ref 368857 (2mL)	Refrigerated (+4°C)	<48 hours. Once samples are spun and separated samples are stable for 5 days.	N/A	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Thallium (Urine)	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Urine White Top Universal - Ref: UNI0003C (5mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated	<ul style="list-style-type: none"> T9 : Urine flasks 70 ml to be used 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Theophylline <i>Aminophylline</i>	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours. Once samples are spun and separated samples are stable for 7 days.	<ul style="list-style-type: none"> Take specimen immediately before next dose (trough specimen) 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Thiocyanate <i>(Cyanide)</i>	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> Collect before administering the treatment. Specify the clinical context. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Thiopurine methyl transferase (TPMT) activity	Accredited	Birmingham City Hospital via Eurofins	Heparin Whole Blood Lithium heparin (non-gel) - Ref: 367883 (5 mL)	Refrigerated (+4°C)	<4 days	<ul style="list-style-type: none"> Collect samples from Monday to Wednesday To be referred on the day of sample collection. Contact MUH Specimen Reception in advance of sampling. Do not collect prior to bank holidays or weekends 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 weeks
Thiopurine methyl transferase (TPMT) Genotyping	Not Accredited	Birmingham City Hospital via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days	<ul style="list-style-type: none"> Collect samples from Monday to Wednesday To be referred on the day of sample collection. Contact MUH Specimen Reception in advance of sampling. Do not collect prior to bank holidays or weekends 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 weeks

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Thrombophilia Screen (Including Protein C, Protein S, Antithrombin III, APCR and Lupus)	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma 4x Sodium Citrate - ref: 363095 (2.7ml)	Sample must be frozen immediately	<3 hours. Once frozen samples stable for 3 days	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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 weeks
Thyroglobulin (TG)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	* 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	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Thyroxine Free (Free T4)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 8 days.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Tobramycin	Not Accredited	Galway Clinic, Galway	Serum SST gel - Ref: 367954 (1mL)	Samples must be spun and separated within 2 hours of collection. Refrigerated (+4°C)	<2 hours unspun. Once spun and refrigerated, stable for 3 days.	It is recommended that specimens be assayed on the day of collection. Separation (removal of the serum from the red blood cells) MUST occur ≤ 2 hours from time of collection. If testing will be delayed > 2 hours the analyte must be stored and transported at 2-8°C for maximum 7 days or at < - 10°C for maximum 14 days.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
TORCH screen antibodies (Screen includes: toxoplasmosis, rubella, cytomegalovirus, herpes simplex, and HIV)	Accredited	Virology, Galway University Hospital	Refer to individual tests for test requ	Refrigerated (+4°C)	Refer to individual tests		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	N/A
Total Iron Binding Capacity / TIBC	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Total Protein	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Total Protein, urine	Accredited	Biochemistry, Mayo University Hospital	Urine Urine Z tube (Urinalysis) Reference: 368501	Ambient	<48 hours at room temperature.		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Toxicology / Drug Screen (Serum): <i>(Screen includes: Alcohol, Amphetamine/Ecstasy, Cocaine, Metabolite, Methadone, Opiates, Benzodiazepine & Cannabinoids)</i>	Accredited	Labor Dessau, Kassel, Germany via Eurofins	Serum Serum non gel - Ref: 367837 (5ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Toxicology / Drug Screen (Urine): <i>(Screen includes: TCA, Cannabinoids, Amphetamines/Methamp, Benzodiazepine, Cocaine Metabolite, Opiates, Alcohol, Urinary Creatinine, EDDP, 6-MAM & Urinary pH)</i>	Not Accredited	Eurofins Biomnis Ireland	Urine White Top Universal - Ref: UNI0003C (10mL)	Refrigerated (+4°C)	< 5 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Toxocarasis	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	If positive, the confirmation test is automatically performed.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Toxoplasmosis - IgG/IgM	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> • 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. • In case of doubtful serology result, a confirmation test by westernblot is automatically performed, test code WBTXG 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
TP53 Gene Analysis	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	EDTA Whole Blood 3x K₃ EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<24 hours	Sample must be taken before 11.30am only on Mon, Tues, Wed or Thurs. Sample must reach Ref Lab within 24 hours.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 weeks
Transferrin	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Transfusion Reaction Investigation – Culture of Implicated Units	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	Sealed Implicated Blood Component(s)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7-14 days

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Transfusion Reaction Investigation (Blood Transfusion Investigations, FBC, Coagulation, Blood film, LDH, U/E, Bilirubin, LFTs, Urinalysis (haemoglobinuria), Blood cultures, NBS culture of units transfused, IgA levels, Haptoglobins)	Accredited	Blood Transfusion, Mayo University Hospital	EDTA Whole Blood 2x K ₂ EDTA (cross match) (6mL) Serum EDTA Whole Blood K3 EDTA - Ref 368857 (3mL) Citrated Plasma Sodium Citrate - ref: 363095 (3ml) Serum 2x SST gel - Ref: 367954 (6mL) Urine White Top Universal- Ref: UNI0003C (10mL) Blood Cultures, Donor units transfused	2-8 c Samples should be tested as soon as possible following collection.	<72 hours		Blood Transfusion MUH Request form - BT/LF/001	24 hours
Triglyceride	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days	Patient should be >12 hr fasting	Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Troponin I	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<24 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	Routine: 3 hours Urgent: 1 hour
Trypsin (Mast Cell) <i>(Anaphylactic Shock: Post reaction work-up)</i>	Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	* 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)	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
TSH	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 1 day Urgent: 1 day
TSH Receptor Antibodies <i>(Anti-TSH receptor antibodies (TRAb))</i>	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	* The search for TSH antiretroviral autoantibodies should be restricted to pregnant women who have or have had Graves _z disease or autoimmune thyroiditis or during follow-up of patients with Graves _z disease treated by synthetic antithyroid drugs. * 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.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Urea	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Urea, urine	Accredited	Biochemistry, Mayo University Hospital	Urine Urine Z tube (Urinalysis) Reference: 368501	Ambient	<48 hours at room temperature. Once refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Uric Acid	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Uric Acid (Urine)	Not Accredited	Eurofins Biomnis Ireland	Urine 24 hour Urine Container Ref: 77.575.401 Alkalinised	Refrigerated (+4°C)	< 4 days refrigerated	<ul style="list-style-type: none"> Specify diuresis Urine alkalinised with sodium hydroxide to pH > 8. Tube for urine sample (4mL)-T28. Dip stick test to be performed onsite at MUH 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Uric Acid, urine	Accredited	Biochemistry, Mayo University Hospital	Urine Urine 2 tube (Urinalysis) Reference: 368501	Ambient	<48 hours at room temperature. Once refrigerated sample is stable for 4 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Urine – Cytology for Malignant Cells	Not Accredited	Histopathology Department, Mayo University Hospital	Urine Collect 10 – 20 mL fresh voided or catheterized urine specimen into a universal bottle containing Shandon Cytospin Collection Fluid	Refrigerate overnight if necessary	Urine, received as fresh fluid, Shandon cytospin fluid added upon arrival in histology lab	Indicate clinical history on test requisition and reason for test. For routine urine collection, emphasize the need for a clean catch specimen. Random mid-day collection is preferred.	Histopathology Department Request Form Mayo University Hospital (HP/LF/001)	5 days
Urinest for Legionella and Pneumococcal antigen testing.	Not Accredited	Microbiology, Mayo University Hospital	Urine White Top Universal (with or without Boric acid preservative)- Ref: UNI0003C (Minimum 5mL in either boric acid or plain sterile universal)	24 hours at room temp. Then store at 2-8° for up to 14 days.	24 hours at room temp		Microbiology Department MUH Request form - MLF/001	24 hours
Ustekinumab	Accredited	CHU Saint Etienne, Hôpital Nord via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Always draw blood at the same time before another administration	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Valproic Acid (Depakine®)	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated	<ul style="list-style-type: none"> Always draw blood at the same time before another administration Form Required Enclose the specific clinical information form (R13-INTGB: Medication quantification). Available from MUH Specimen Reception. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Vancomycin	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<4 hours at room temperature. Once spun and refrigerated sample is stable for <1 day		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 3 hours Urgent: 1 hour
Varicella-zoster Virus IgG antibodies	Accredited	Virology, Galway University Hospital	Serum SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 unspun. <4 days spun and refrigerated.	<ul style="list-style-type: none"> Samples from pregnant patients who have been in contact with chickenpox are processed urgently if received before 2pm Monday to Friday. The request must be marked as Urgent with clinical details, and the requesting clinician's contact number, clearly stated. The laboratory should be contacted (Ext 4398) to alert staff that the sample is in transit. Indeterminate results are referred to the NVRL for confirmation. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Varicella-zoster Virus PCR	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	Serum SST gel - Ref: 367954 (7mL) or CSF White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	2-8°C for 7 days; long term -20°C		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Vascular Endothelial Growth Factor (Cytokine)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Do not use 10ml tube	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Vedolizumab	Not Accredited	Immunology, Galway University Hospital	Serum SST gel - Ref: 367954 (5mL)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days	Antibodies to Vedolizumab will be reflex tested if necessary. Please ensure GUH TDM request form is completed with every request. Contact Specimen Reception for these forms.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Vitamin A (Retinol)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Heparin Plasma Lithium heparin (non-gel) - Ref: 367883 (2mL)	Sample must be spun and frozen immediately	<1.5 hours. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> Sample to be frozen within 90 minutes. Home sampling is not advisable. Store samples protected from light but do not pack the tube. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Vitamin B1 (Thiamine)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (2mL)	Sample must be frozen immediately	Once frozen samples stable for 5 days	<ul style="list-style-type: none"> Store samples protected from light but do not pack the tube. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Vitamin B12	Accredited	Biochemistry, Mayo University Hospital	Serum SST gel - Ref: 367954 (5mL) Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005 (1.3ml)	Ambient	<72 hours unspun at room temperature. Once spun and refrigerated sample is stable for 5 days		Biochemistry Department MUH Request Form - B/LF/001	External: 2 days Routine: 1 day Urgent: 1 day
Vitamin B2 (Riboflavin)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (1mL)	Sample must be frozen immediately	<4 hours unspun - protected from light. Once frozen stable for 5 days.	Store samples protected from light but do not pack the tube.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Vitamin B6 (Pyridoxal phosphate)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Whole Blood K3 EDTA - Ref 368857 (2mL)	Sample must be frozen immediately	<4 hours unspun - protected from light. Once frozen stable for 5 days.	<ul style="list-style-type: none"> 1 individual aliquot for this analysis. Store samples protected from light but do not pack the tube. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Vitamin C (Ascorbic Acid)	Accredited	Labor Volkman, Germany via Eurofins	Heparin Plasma Lithium heparin (non-gel) - Ref: 367883 (2mL)	Sample must be spun and frozen immediately	<20 mins. Once frozen samples stable for 2 days	<ul style="list-style-type: none"> 1 individual aliquot for this analysis. Centrifuge and freeze within 20 minutes Store samples protected from light but do not pack the tube. 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. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Vitamin D (1,25-OH-Vitamin D)	Accredited	Eurofins Biomnis Paris, France via Eurofins	Serum SST gel - Ref: 367954 (3mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 12 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Vitamin D (25 Hydroxy Vitamine D3 / Hydroxycholecalciferol)	Accredited	Clinical Biochemistry, Galway University Hospital	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 4 days refrigerated	All in house samples sent to GUH	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2-3 weeks

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Vitamin D (25-OH-Vitamin D -D2 + D3)	Not Accredited	Eurofins Biomnis Ireland	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 12 days refrigerated	All GP samples currently sent to Biomnis	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 days
Vitamin E (Tocopherol)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Heparin Plasma Lithium heparin (non-gel) - Ref: 367883 (2mL)	Sample must be spun and frozen immediately	<1.5 hours. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> • Sample to be frozen within 90 minutes . • Home sampling is not advisable. • Store samples protected from light but do not pack the tube. • If requested with vitamin A, 1 specific aliquot for both assays 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
Vitamin K1 (Phylloquinone)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum Serum non gel - Ref: 367837 (2ml)	Sample must be spun and frozen immediately	<1.5 hours. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> • Sample to be frozen within 90 minutes . • Home sampling is not advisable. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Von Willebrands Factor Antigen (vWF:Ag)	Accredited	Haematology Department, University Hospital Galway	Citrated Plasma 2x Sodium Citrate - ref: 363095 (2.7ml)	Sample must be frozen immediately	Once frozen samples stable for 3 days	Samples are prepared as per Factor Assay	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 weeks
Weak D Genotype	Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	EDTA Whole Blood K₂EDTA (cross match) (≥3mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	14 days
White Blood Cell Differential Cell Count	Accredited	Haematology. Mayo University Hospital	EDTA Whole Blood K₃ EDTA - Ref 368857 (3mL) or EDTA Paediatric tube - Ref: 72001 (1.3mL)	4°C	24 hours		Haematology Department MUH Request Form - H/LF/002	Routine: 2 hours Out-of hours: 1 hour
Xanthochromia	Accredited	Biochemistry Lab, Beaumont Hospital, Beaumont Road, D9	CSF Xanthochromia Tube - Ref:60.611.011 Sample must be collected and received in darkened container	Sample must be frozen immediately	Once frozen samples stable for 5 days	<ul style="list-style-type: none"> • Sample container available from Microbiology MUH. • Sample must be collected and received in darkened container. • Sample 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Yellow fever - Immunity test	Not Accredited	Laboratoire Cerba, France via Eurofins	Serum SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> • This test is designed to measure anti viral immunity 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	15 days
Yersinia Antibodies (Anti-YOP)	Accredited	Labor Volkman via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	2 weeks
Zika - Serology	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> • Form Required. Enclose the specific clinical information form (R28-INTGB : Dengue-Chikungunya-West Nile-Zika). Available from MUH Specimen Reception. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week

MUH Test Directory A-Z (In-house and Referrals)

Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Zika Virus - PCR	Accredited	Eurofins Biomnis Lyon, France via Eurofins	EDTA Plasma K3EDTA - Ref: 368857 (2 mL) Serum SST Gel - Ref: 367954 (2mL) Urine Universal Container - Ref: UNI0003C (2mL) Saliva Universal Container - Ref: UNI0003C (2mL) Sperm Universal Container - Ref: UNI0003C (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> • Form Required. Enclose the specific clinical information form (R28-INTGB : Dengue-Chikungunya-West Nile-Zika). Available from MUH Specimen Reception. • The use of the S14UK transport bag is Mandatory.S14: Special mycobacteria transport bags are to be used. 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 days
Zinc	Not Accredited	Trace Laboratories Moseley, UK via Eurofins	Heparin Plasma Sodium Heparin - Ref: 3678676 (2mL)	Samples must be spun and separated and Refrigerated (+4°C)	<1 hour unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> • Do not use tubes with separator gel • Centrifuge the sample and decant rapidly • Not to be performed on haemolysed sample • Spin down and immediately decant plasma from cells. • Immediately decant the plasma(maximum 1 hour). 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	4 days
ZNT8 Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	Serum SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> • Do not use 10 mL tube 	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	14 days