

### 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	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+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.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2 weeks
17-Alpha-OH-Progesterone (Serum) (17-Hydroxyprogesterone)	Accredited	Biochemistry Laboratory, St James's Hospital	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Paediatric and adult ranges available	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	10 days
17-Alpha-OH-Progesterone <1 year old (17-Hydroxyprogesterone)	Not Accredited	Biochemistry Laboratory, CHI, Crumlin, Dublin	<b>Serum</b> <b>Serum Paediatric tube - Ref 41.1378.005</b> (1.3ml)	Sample must be spun and <b>frozen</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2 weeks
17-Alpha-OH-Progesterone >1 year old (Serum) (17-Hydroxyprogesterone)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+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.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	3 days
5-HIAA (Urine)	Accredited	Biochemistry Lab, Beaumont Hospital, Beaumont Road, D9	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> <b>Acidified</b>	<b>Refrigerated</b> (+4°C)	<7 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1-3 weeks
ABO Blood Group Anomaly Investigation (Serological)	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 days
Acanthamoeba (Amoebic Keratitis)	Accredited	Micropathology Ltd., Coventry, UK	<b>Corneal scraping</b> on a dry sterile swab	No storage requirements indicated	No requirements		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1 Month
Activated Partial Thromboplastin Time (APTT)	Accredited	Haematology, Mayo University Hospital	<b>Citrated Plasma</b> <b>Sodium Citrate - ref: 363095</b> (2.7mL) <b>Sodium Citrate paed - ref: 41.1350.005</b> (1.3mL)	Room Temperature	8 hours		<a href="#">Haematology Department MUH Request Form - H/LF/002</a>	Routine: 2 hours Out-of hours: 1.5 hour
Activated Protein C Resistance (APC-R)	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>Sodium Citrate - ref: 363095</b> <b>Sodium Citrate paed - ref: 41.1350.005</b>	Sample must be <b>frozen</b> immediately	<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.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 weeks
Acylcarnitines	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Guthrie card</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001) <b>Metabolic External request form (LF-META-0108)</b>	1 week

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Acylcarnitines	Accredited	Great Ormond Street Hospital, Great Ormond St., London WC1N 3JH, UK. via Eurofins	<b>Guthrie card</b> 2 blood spots on card, air dry for 2 hours <b>or</b> <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	<b>Card:</b> Ambient - allow to air dry of 2 hours <b>Plasma:</b> sample must be spun and frozen immediately	<b>Card:</b> 7 days <b>Plasma:</b> <1 hour	Sent to Biomnis if patient clinical details are development delays etc. Full clinical information and reason for request must accompany specimen.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) Biomnis special form: <b>R26-INTGB-FRC_Metabolic_biochemistry</b>	3 weeks
Adalimumab	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Please contact MUH Specimen Reception for required clinical forms.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	6 weeks
ADAMTS – 13 <i>(von Willebrand factor-cleaving protease (VWFPC))T.T.P Screen</i>	Accredited	Haemostasis and Thrombosis Lab, Belfast City Hospital	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	Samples must be transported on <b>dry ice</b> and only be transported Tuesday to 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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	Non urgent < 3weeks Urgent <6wks
Adenosine Deaminase activity	Accredited	Eurofins Biomnis France - Referred in Begin Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL) <b>or</b> <b>CSF</b> White Top Universal - Ref: UNI0003C <b>or</b> <b>Pleural Fluid</b> White Top Universal - Ref: UNI0003C <b>or</b> <b>Ascite fluid</b> White Top Universal - Ref: UNI0003C	<b>Refrigerated</b> (+4°C)	Blood: <48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	6 weeks
Adenovirus / Rotavirus Antigen (<5 yr old)	Accredited	Medical Microbiology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b>	<b>Refrigerated</b> (+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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Adenovirus PCR	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (4mL)	Sample must be spun and <b>frozen</b> immediately	2-8°C for 6 hours/ plasma -20°C	Specimens must be delivered directly to a staff member within 3 hours of phlebotomy.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	7 days
Adrenocorticotrophic hormone (ACTH) (Adult/Paeds) ( <i>Corticotrophin</i> )	Accredited	Clinical Biochemistry, Galway University Hospital	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (4mL). <b>K<sub>3</sub>EDTA Paediatric tube - Ref: 72001</b> (2.7ml) must be delivered on ice	Sample must be spun and <b>frozen</b> immediately	<1 hour	Contact Biochemistry MUH for ice pack. Alert and hand directly to laboratory specimen reception staff on ice	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	4 days
Adjusted Calcium ( <i>for &gt;18 years only</i> )	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days	Calculated for over 18 years only.	<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour

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Albumin	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<b>Biochemistry Department MUH</b> <b>Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Alcohol	Accredited	Biochemistry, Mayo University Hospital	<b>Fluoride Oxalate</b> <b>Fluoride Oxalate - Ref: 368920</b> (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.	<b>Biochemistry Department MUH</b> <b>Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Alcohol	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (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.	<b>Biochemistry Department MUH</b> <b>Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Aldolase	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Blood draw preferentially after a 30-min resting period	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	2 days
Aldosterone	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (3mL)	Sample must be spun and <b>frozen</b> 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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	6 days
Aldosterone	Accredited	Clinical Biochemistry, Galway University Hospital	<b>EDTA Plasma</b> <b>2x K<sub>3</sub> EDTA - Ref 368857</b> (5mL)	Sample must be spun and <b>frozen</b> 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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	3 weeks
Alkaline Phosphatase Isoenzymes	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+4°C)	<4 days refrigerated unspun. Once spun samples stable for 7 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Allergen Specific IgE (Rast)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+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	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	7 days
ALP	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Alpha fetoprotein (AFP)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 hours unspun. Once spun samples stable for 5 days.		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	Priority: 1 working day Routine: 4 working days
Alpha- Thalassaemia by Molecular Testing	Accredited	Purine Research Laboratories, St Thomas Hospital. London	<b>EDTA Plasma</b> <b>4x K3 EDTA - Ref 368857</b> (4mL)	Ambient	4 days ambient		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	10 days
Alpha-1-Antitrypsin	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+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	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Alpha-1-Antitrypsin Clearance, serum+stools	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> (30g) and <b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	Serum: <48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	7 days
Alpha-1-Antitrypsin Phenotyping	Not Accredited	Alpha-1-Foundation, RCSI Building, Beaumont Hospital, Dublin 9	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	6 weeks
Alpha-1-iduronidase (Screen for Hurlers Syndrome)	Accredited	Willink Unit, Royal Manchester Children's Hospital	<b>EDTA Plasma</b> <b>K<sub>2</sub> EDTA - Ref 368857</b> (5mL)	<b>Refrigerated</b> (+4°C)	<72 hours	Needs to be received in referral laboratory within 72 hours of collection. Contact Specimen reception for further details	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	2 weeks
ALT	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour

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Aluminium	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml) <b>Urine</b> White Top Universal -Ref: UNI0003C (10mL)	<b>Refrigerated</b> (+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)	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	10 days
Amikacin	Accredited	Eurofins Biomnis Ireland	<b>Serum SST gel - Ref: 367954</b> (3mL) or <b>Plasma PST gel - Ref 367962</b> (3mL )	Sample must be spun and <b>frozen</b> immediately	Once spun and frozen samples stable for 14 days		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2 days
Amino Acids (Blood)	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Plasma PST gel - Ref 367962</b> (3mL ) <b>Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Sample must be spun and <b>frozen</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1-14 days
Amino Acids (Urine)	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Urine</b> White Top Universal- Ref: UNI0003C	Sample must be <b>frozen</b> immediately	Once frozen samples stable for 5 days	<b>Not analysed in Temple Street if clinical details include development delays etc. Fresh urine required.</b> Will only be analysed when clinically warranted (e.g. suspected tubulopathy, stone formation, or cystinuria). Clinical details must be provided for interpretations and appropriate follow-up. 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..	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2-3 weeks
Amino Acids (Urine)	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> White Top Universal - Ref: UNI0003C 2 x containers early morning urine <b>(Fasting)</b>	Sample must be <b>frozen</b> immediately	Once frozen samples stable for 5 days	<b>Sent to Biomnis if clinical details indicate developmental delays, autism etc.</b> Home sampling is not advisable. Enclose the specific clinical information form (R1-INTGB : Amino Acids - Organic Acids) The urine creatinine level, essential information for the result interpretation, is systematically performed	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1 week
Amiodarone (Cordarone)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum Serum non gel - Ref: 367837</b> (5ml)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1 week
Ammonia	Accredited	Biochemistry, Mayo University Hospital	<b>Plasma PST gel - Ref 367962</b> (5mL ) <b>Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005</b> (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.	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Amylase	Accredited	Biochemistry, Mayo University Hospital	<b>Serum SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Amylase, Urine	Accredited	Biochemistry, Mayo University Hospital	<b>Urine Urine Z tube (Urinalysis)</b> Reference: 368501	Ambient	<48 hours at room temperature. Once refrigerated sample is stable for 4 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour

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Amyloid A	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1 week
Anaerobes - Identification and susceptibility of anaerobes incl Actinomyces	Accredited	UK Anaerobe Reference Unit, Public Health Wales	<b>Isolate from slope</b>			Slope of isolate, complete form: M/EXT/152. Pure isolates sent on charcoal transport swabs or in cooked meat broths are preferable as they provide maximum viability and recovery.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001) and M/EXT/152	14 days
Androstenedione Delta 4, serum	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL) or <b>Plasma</b> <b>PST gel - Ref 367962</b> (3mL )	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 4 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 days
Angelman's Syndrome <i>(Karyotype/FISH)</i>	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL)	Ambient	4 days ambient	Each request must ALWAYS be accompanied by a consent form signed by the patient and the prescribing pathologist	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001) & <b>Eurofins Combined Genetic Test Request, Information and Consent Form</b>	9-21 days; 9 if paediatric emergency
Angiotensin Converting Enzyme (ACE)	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated, <1 year frozen		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	3 days
Antenatal group, antibody screen and antibody identification, phenotyping <i>(as required)</i>	Accredited	Galway Blood Transfusion Establishment (GBTE), Galway University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	<b>Refrigerated</b> (+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	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	Urgent: 2 days Routine: 5 days
Anti-Acetylcholine Receptor Abs	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	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	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	7 days
Anti-Actin Antibody	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 days
Anti-Adrenal Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	7 days
Anti-Beta-2 Glycoprotein-1 Antibodies	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (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
Antibody investigation	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> 2 x <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Anti-c Quantitation	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Anti-C1q Antibodies	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 days
Anti-Cardiolipin Antibodies ( <i>Vasculitis Screen</i> )	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Anti-Centromere Antibodies	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Anti-Cyclic citrullinated peptide antibodies (CCP)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Anti-D Quantitation	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Anti-Diuretic Hormone (ADH) ( <i>Vasopressin</i> )	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K<sub>2</sub>EDTA (Aprotinine) - Ref: 361017</b> (5mL)	Sample must be spun and <b>frozen</b> within 1 hour	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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	8 days
Anti-double stranded DNA Antibody (dsDNA)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	Only performed in the context of positive ANA	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Anti-Endomysial Antibodies	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	IgA anti-endomysial antibody test if IgA anti-tTG screening test positive.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	10 days
Anti-Endomysium IgA Antibody	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 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-Extractable Nuclear Antigens (ENA) Screen: Sm/RNP/Ro/La/Sci-70/Jo-1)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Anti-Gastric Parietal Cell Antibodies	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Anti-Gliadin Abs (IgG+IgA)	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 days
Anti-Glomerular Basement Membrane Antibodies (GMB)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Anti-Glutamic Acid Decarboxylase (GAD) Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Anti-glycolipid antibodies (Gangliosides) (CSF)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>CSF</b> White Top Universal - Ref: UNI0003C (1mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	13 days
Anti-glycolipid antibodies (Gangliosides) (Serum)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	13 days
Anti-Histone Antibodies	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 weeks
Anti-IgA Antibodies	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
Anti-Insulin Antibodies (Total) (IAA)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	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-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	Accredited	Eurofins BiomnisUK 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)	60 days
Anti-Mullerian Hormone	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
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

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

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Anti-Sci-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
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)	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 (refer to Thrombophilia Screen)	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

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Anti-Thyroglobulin (TG) Abs	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 3 days refrigerated, <30 day frozen		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1 day
Anti-Thyroid Peroxidase (TPO) Antibodies	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<24 hours refrigerated unspun. Once spun samples stable for 3 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Anti-Transglutaminase (TTG) Antibodies	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 days
Anti-Tyrosine Phosphatase (IA2) Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	8 days
Anti-UI RNP Antibodies	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	10 days
Anti-Voltage Gated Calcium Channel (VGCC) antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	15 days
Anti-Xa (Low M.W. Heparin Assay)	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be <b>frozen</b> immediately	<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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Anti-Xa - Apixaban only	Accredited	Haematology Laboratory, Central Pathology Laboratory (CPL) Building, LabMed Directorate, St James's Hospital	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be <b>frozen</b> 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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1 week
Anti-Zn Transporter 8 (ZnT8) Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	18 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
Arsenic, urine	Not Accredited	Trace Laboratories, UK via Eurofins	<b>Urine</b> 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)	30 days
Ascitic Fluid - cytology	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Ascitic Fluid</b> 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	<b>Serum</b> 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
Aspergillus genus DNA	Accredited	Micropathology Ltd., Coventry, UK	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (9mL) BAL or Sputum	Refrigerated (+4°C)	<48 hours refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	7 days
Aspirates - cytology	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Aspirate</b> 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	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Auto Immune ENA Panel	Accredited	Immunology, Galway University Hospital	<b>Serum</b> 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	<b>Serum</b> 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	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> 2 x K <sub>2</sub> EDTA (cross match) (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days

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Autoimmune Liver Disease Panel	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+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.	<b>Pathology Referral Request form - Dark Blue form</b> (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	<b>Serum</b> <b>SST gel - Ref: 367954</b> (6mL) <b>and</b> <b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (2mL)	<b>Ambient</b>	<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 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	<b>3E Histocompatibility &amp; Immunogenetics NHS Granulocyte Immunology</b> (H/EXT/093)	7 days
Autoimmune Systemic Sclerosis Panel	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+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	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	3 weeks
Azathioprine	Accredited	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Eurofins	<b>Heparin Whole Blood</b> <b>2x Lithium Heparin - Ref:367883</b> (5mL)	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated	<b>Specify:</b> - the reasons for the prescription (efficiency and/or toxicity test), - the sampling time - the treatment start date and/or the date of any change of dosage - the dosage data (quantity administered, frequency, administration route), - the subject's age, height and weight if possible. Transport within not more than 48 hrs, if possible in less than 24 hrs Do not sample at end of week All requests must ALWAYS contain: - the sampling date and time - the dosage data (quantity administered, frequency, administration route) - the treatment start date and/or the date of any change in dosage - treatment using aminosalicic acid derivatives (Quadrasa, Dipentum, Pentasa, etc.) - clinical data: type of disease - transfusion?, if yes, date or last transfusion To be collected during equilibrium state (i.e at least 3 weeks - 1 month from the start of treatment) Depending on the results, the pathologist may also resolve to perform / invoice TPMT activity	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	60 days
Bartonella henselae (Cat Scratch Disease) Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	6 days
BCR-ABL (Blood)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (9mL)	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated	All CMD request must be accompanied with CMD request form or samples will be rejected. 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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) <b>&amp; St James Cancer Molecular Diagnostics Request Form</b> (H/EXT/ 183)	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
BCR-ABL (Bone Marrow)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Bone Marrow</b> RPMI (9mL)	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated	All CMD request must be accompanied with CMD request form or samples will be rejected. 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; St James Cancer Molecular Diagnostics Request Form (H/EXT/183)</a>	10-15 days
Bence-Jones proteins (Urine Free Light Chains)	Not Accredited	Immunology, Galway University Hospital	<b>Urine</b> White Top Universal - Ref: UNI0003C (10mL) First early morning Urine or <b>24h urine</b> <b>24 hour Urine Container</b> Ref: 77.575.401 for quantification	<b>Refrigerated</b> (+4°C)	Samples stable for 1 month refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	10days
Beta-2-Microglobulin	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Beta-2-Transferrin	Accredited	University of Birmingham, Clinical Immunology Service via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL) and <b>Biological Fluid</b> White Top Universal - Ref: UNI0003C (200ul)	Sample must be spun and <b>frozen</b> within 4 hours	<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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Beta-Crosslaps (CTX)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Beta-d-glucan (1-3)	Accredited	Microbiology Department, St James Hospital	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml) <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Bicarbonate	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<4 hours	Please send to Lab promptly. Must be received in lab within 4 hrs post venepuncture. Please fill tube adequately.	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Bile Acids	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 hours unspun. Once spun samples stable for 7 days.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1 day
Bilirubin Direct	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient - protect from the light	<24 hours unspun. Once protected from light, spun and refrigerated sample is stable for 3 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Bilirubin Total	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (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	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour

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

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Bordetella pertussis (anti toxin Abs)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> 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	<b>CSF</b> 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	<b>Serum</b> 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	Beaumont Hospital Molecular Pathology Laboratory, Beaumont Hospital, Dublin 9, D09 V2N0	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (5mL)	Ambient	<24 hours ambient. >24 hours refrigerate sample.	Test requests must be accompanied by a completed NCCP - BRCA test request and consent form for PARP inhibitor selection. 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) & NCCP BRCA test request and consent form for PARP inhibitor selection	30 days
Bronchial Brush Specimen - cytology	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Bronchial Brush</b> 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 pre-filled 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	<b>BAL</b> 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 pre-filled 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	<b>Serum</b> 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	<b>Serum</b> 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	<b>Serum</b> 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

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CA15-3	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> 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
CA19-9	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> 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/blood	Not Accredited	Eurofins Biomnis Ireland	<b>Heparin Whole Blood</b> Sodium Heparin - Ref 3678676 (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml) <b>Urine</b> White Top Universal -Ref: UNI0003C (10mL)	Refrigerated (+4°C)	4 days refrigerated		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	8 days
Calcitonin	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> SST gel - Ref: 367954 (4mL)	Sample must be spun and frozen within 4 hours	< 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	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (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: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Calcium, Urine	Accredited	Biochemistry, Mayo University Hospital	<b>Urine Acidified</b> 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: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Calprotectin	Accredited	Eurofins Biomnis Ireland	<b>Faeces</b> Blue Top Stool Universal - Ref: UNI0039B (20g minimum)	Refrigerated (+4°C)	< 8 days refrigerated.	Demand Management is in place for all in-house Calprotectin requests. Please refer to below communication regarding requirements.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
CALR exon 9 mutations <i>(calreticulin mutation)</i>	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (3mL)	Refrigerated (+4°C)	<24 hours	All CMD request must be accompanied with CMD request form or samples will be rejected. Send Monday to Thursday before 11.00 a.m.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)	10-15 days
Campylobacter - serology	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> 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
Carbamazepine (Tegretol)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> 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

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Carbazepine-OH (Trileptal®) (10-Hydroxy-carbazepine)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Carotene (beta)	Accredited	Eurofins Biomnis France - Referred in Lyon Sud Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 1 hour ( <b>protect from light; avoid gel separator tubes</b> )	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	13 days
Catecholamines (Blood)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>2x Lithium heparin (non-gel) - Ref: 367883</b> (2mL)	Sample must be spun and <b>frozen</b> within 1 hour	<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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Catecholamines and Metabolites (Adrenaline / Noradrenaline (VMA) / Dopamine / Metanephrine / Normetanephrine) (Urine)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>24 hour Urine Container</b> <b>Ref: 77.575.401</b>	Sample must be <b>frozen</b> within 4 hours	<24 refrigerated. Once frozen samples stable for 20 days	Please ensure UCATC and UVMAC are the order codes entered into LIS and on request form when sending out for paediatric patients.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
CEA	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 hours unspun. Once spun samples stable for 7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1-2 days
Cerebrospinal (CSF) Fluid – cytology for Malignant Cells	Not Accredited	Histopathology Department, Mayo University Hospital	<b>CSF</b> 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 cytopsin fluid added upon arrival in histology lab	Indicate clinical history on test requisition and reason for test	<a href="#">Histopathology Department Request Form Mayo University Hospital (HP/LF/001)</a>	5 days
Ceruloplasmin	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
CGH Array / Microarray / Single Nuclear Polymorphism (SNP)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	<b>Refrigerated</b> (+4°C)	<4 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a> & <a href="#">Eurofins Combined Genetic Test Request, Information and Consent Form</a>	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
CGH Array / Microarray / Single Nuclear Polymorphism (SNP)	Accredited	Centogene, GmbH, Am Strande 7, 18055 Rostock, Germany	<b>Centocard</b>	Ambient - allow to air dry of 2 hours	N/A	Please contact Specimen Reception to avail of kits and request/consent forms	<b>Centogene Request Form and Consent form - available from Specimen Reception</b>	15 days
Chlamydia psittaci Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Chlamydia trachomatis & Nesseria gonorrhoea dual assay (PCR)	Accredited	Virology, Galway University Hospital	<b>Urethral swab</b> <b>Abbott Multicollect swab</b> <b>Ref: 9K12-02</b> <b>Note: Urine collected as part of Abbott Multi Collect will only be tested on male patients from the STI clinic</b>	If delayed <b>refrigerate</b> (+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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	10 days
Chlamydia trachomatis & Nesseria gonorrhoea dual assay (PCR)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Urine</b> <b>Aptima Urine Collection Kit (GC Test)</b> <b>Ref: 301040</b>	<b>Refrigerated</b> (+4°C)	2-8°C for 30 days	GP Urines. Only sent when Aptima Urine Collection Kit (GC Test) is received.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Chloride	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Cholesterol	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (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	<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Cholinesterase	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	4 days

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Chromium	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole blood</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml) <b>Urine</b> White Top Universal -Ref: UNI0003C (10mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	18 days
Chromogranin A	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum SST gel - Ref: 367954</b> (1mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days	Do not use haemolysed samples. Do not use phase separator tubes	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	8 days
Chromosome Analysis (Culture)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood Lithium heparin (non-gel) - Ref: 367883</b> (5mL)	Ambient	<4 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a> & <a href="#">Eurofins Combined Genetic Test Request, Information and Consent Form</a>	13 days
Chromosome Analysis, Products of conception/ CVS	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Chorionic villus specimen</b>	Ambient	<5 days ambient	Contact Histology regarding specimen collection container	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a> & <a href="#">Eurofins Combined Genetic Test Request, Information and Consent Form</a>	5 (Direct Examination) 8 - 18 (Culture)
Chromosome Y microdeletions (Multiplex PCR)	Accredited	Eurofins Biomnis Ireland	<b>Cultivated amniotic fluid, cultivated trophoblasts</b>	Ambient	<5 days ambient	Contact Histology regarding specimen collection container	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a> & <a href="#">Eurofins Combined Genetic Test Request, Information and Consent Form</a>	13 days
Citric acid (Citrate)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine 24 hour Urine Container Ref: 77.575.401</b> (5 mL) (non acidified)	Sample must be <b>frozen</b> within 4 hours	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)	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	6 days
CK	Accredited	Biochemistry, Mayo University Hospital	<b>Serum SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<24 hours upsun at room temperature. Once spun and refrigerated sample is stable for 1.5 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Clostridium difficile toxin B gene detection	Accredited	Medical Microbiology, Galway University Hospital	<b>Faeces Blue Top Stool Universal - Ref: UNI0039B</b> (1-2g during acute phase of illness)	Refrigerate (+4°C). If delayed >72h sample must be frozen (-20°C)	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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 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
Clozapine (Leponex®, Clozaril)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>Lithium heparin (non-gel)</b> <b>- Ref: 367883</b> (1mL)	Refrigerated (+4°C)	<3 days unspun, refrigerated. <7 days spun and refrigerated.	Do not use gel separator tubes	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Coagulation Factor Assays (incl Factors – II, V, VIII, VIII:C, IX, XI, XII, and FX)	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> <b>Sodium Citrate paed - ref: 41.1350.005</b>	Sample must be 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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1 day
Coagulation Screen (PT and APTT)	Accredited	Haematology, Mayo University Hospital	<b>Citrated Plasma</b> <b>Sodium Citrate - ref: 363095</b> (2.7mL) <b>Sodium Citrate paed - ref: 41.1350.005</b> (1.3mL)	See individual tests	See individual tests		<a href="#">Haematology Department MUH Request Form - H/LF/002</a>	Routine: 2 hours Out-of hours: 1.5 hour
Cobalt	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole blood</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml) <b>Urine</b> White Top Universal -Ref: UNI0003C (10mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	18 days
Coeliac Screen (Anti-Tissue Transglutaminase (TTG) Antibodies)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Cold Agglutinins	Not Accredited	Blood Transfusion, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Immediately to Lab @ 37°C	Samples should be tested as soon as possible following collection.	Immediately to Lab @ 37°C	<a href="#">Blood Transfusion MUH Request form - BT/LF/001</a>	5 Hours
Complement C1 Esterase Inhibitor	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Complement C1 Esterase Inhibitor Functional Assay	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 weeks

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Test Name	Accreditation Status	Testing Laboratory	Specimen Collection Container	Storage Requirements	Pre-Processing Stability	Special Requirements	Request Form	TAT
Complement C1 q	Accredited	Immunology Dept, St James Hospital, Dublin	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	8 weeks
Complement C3 Nephritic Factor	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 dyas
Complement C3/ C4	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Complement: C2/C5/C6/C7/C8/C9	Accredited	Immunology Dept, St James Hospital, Dublin	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 3 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	8 weeks
Complex Immunohaematology Testing	Accredited	IBGRL Molecular Diagnostics NHS Blood and Transplant North Bristol Park Filton, Bristol via IBTS	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	Not specified
Connexin 26 and 30	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Refrigerated (+4°C)	<5 days ambient		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a> & <b>Eurofins Combined Genetic Test Request, Information and Consent Form</b>	3 months
Copper, Plasma	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml) <b>Serum</b> <b>Serum non gel - Ref: 367837</b> (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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	8 days
Copper, urine	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (20 mL)	Refrigerated (+4°C)	7 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	6 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
Cortisol	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 hours unspun. Once spun samples stable for 7 days refrigerated.		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	1-4 days
Cortisol Free, urine	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (20 mL) <b>or</b> <b>Spot urine</b> White Top Universal - Ref: UNI0003C (10 mL)	<b>Refrigerated</b> (+4°C)	<7 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Coxiella burnetii - phase 1 and 2 (Q Fever)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>Do not use 10ml tube.</li> <li>Phase I and II titration and serology are triggered if the phase II serology is positive</li> </ul>	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	3 days
Coxsackie (Picornavirus, Enterovirus) (CFT)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
C-Peptide	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be spun and <b>frozen</b> immediately	<1 hour unspun. Once spun and frozen samples stable for 1 month	Fasting	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	7 days
C-Reactive Protein	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Creatine phosphokinase - isoenzymes	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated	Not to be performed on haemolysed sample	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	7 days
Creatine phosphokinase MB (CK-MB)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	2 days
Creatinine	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (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.	<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour

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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	<b>Urine</b> 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.	<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Creatinine, urine	Accredited	Eurofins Biomnis Ireland	<b>Urine</b> 24 hour Urine Container Ref: 77.575.401	Refrigerated (+4°C)	<6 days refrigerated	State total volume. 15ml aliquot required (3 hour minimum collection)	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	4 days
Creutzfeld Jakob Disease (CJD, 14-3-3 Protein)	Accredited	Microbiology Dept., Beaumont Hospital	<b>CSF</b> 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.	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	3-6 weeks
Cryptococcal Antigen	Accredited	Virology, Galway University Hospital	<b>Serum</b> 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.	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	7 days
Cryptosporidium parvum	Accredited	Medical Microbiology, Galway University Hospital	<b>Faeces</b> 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"> <li>Cryptosporidium spp is tested routinely on all outpatients (GUH).</li> <li>Ensure sample is in a leak proof laboratory container</li> </ul>	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	2 days
CSF Protein & glucose	Not accredited	Biochemistry, Mayo University Hospital	<b>CSF</b> 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.	<b>Biochemistry Department MUH Request Form - B/LF/001</b>	Urgent: 1.5 hour
Culture and investigation for all swab types for [Internal MUH Users]	Not Accredited	Microbiology, Mayo University Hospital	<b>Swab in transport medium or charcoal</b>	If processing is delayed then refrigeration is preferable to storage at ambient temperature	<96 hours		<b>Microbiology Department MUH Request form - M/LF/001</b>	3 days
CPE investigation of swab [Internal MUH Users]	Accredited	Microbiology, Mayo University Hospital	<b>Swab in transport medium</b>	If processing is delayed then refrigeration is preferable to storage at ambient temperature	<96 hours		<b>Microbiology Department MUH Request form - M/LF/001</b>	3 days
Culture and investigation for Respiratory samples [Internal MUH Users]	Accredited (BAL only)	Microbiology, Mayo University Hospital	<b>Expectorated/suctioned Sputum, Bronchoaveolar lavage</b> (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.	<b>Microbiology Department MUH Request form - M/LF/001</b>	3 days
Culture and sensitivity investigation of Tissue, Bones, Biopsies	Not Accredited	Microbiology, Mayo University Hospital	<b>Tissues, Bones, Biopsies</b> 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		<b>Microbiology Department MUH Request form - M/LF/001</b>	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
Culture and sensitivity investigations of <b>Intravascular tips</b>	Not Accredited	Microbiology, Mayo University Hospital	<b>Intravascular tips</b> 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.	<b>Microbiology Department MUH Request form - M/LF/001</b>	3 days
Cyclosporin (Neoral)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>EDTA Whole Blood K3 EDTA - Ref 368857</b> (4mL) whole blood	<b>Refrigerated</b> (+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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	7 days
Cystic Fibrosis– Genetic Test	Accredited	Department of Clinical Genetics, CHI Crumlin	<b>EDTA Whole Blood K3 EDTA - Ref 368857</b> (5mL)	<b>Refrigerated</b> (+4°C)	<4 days refrigerated	Must complete CF patient information request form (CF PID), download from <a href="http://www.genetics.ie">www.genetics.ie</a>	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) & <b>Crumlin Department of Clinical Genetics Request form</b>	10 weeks
Cystic Fibrosis Screen (51 mutations)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood K3 EDTA - Ref 368857</b> (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. Forms required, please contact Specimen reception	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) & <b>Eurofins Combined Genetic Test Request, Information and Consent Form</b>	13 days
Cystine	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine White Top Universal - Ref: UN10003C</b> 2 x containers early morning urine ( <b>Fasting</b> )	Sample must be <b>frozen</b> within 1 hour	<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	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	1 week
Cytomegalovirus (CMV – PCR)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>EDTA Plasma 2x K2EDTA - Ref: 368857</b> (8mL)	Sample must be spun and <b>frozen</b> immediately	2-8°C for 6 hours/ plasma -20°C	Specimens must be delivered directly to a staff member within 3 hours of phlebotomy.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	1-3 weeks
Cytomegalovirus (CMV) IgG / IgM Antibodies	Accredited	Virology, Galway University Hospital	<b>Serum SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 upspun. <4 days spun and refrigerated.		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	1-2 weeks
Cytomegalovirus (CMV) –Urine	Not Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Urine White Top Universal - Ref: UN10003C</b> Freshly voided urine Sterile Universal	<b>Refrigerated</b> (+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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	1-3 weeks
D-Dimers	Accredited	Haematology, Mayo University Hospital	<b>Citrated Plasma Sodium Citrate - ref: 363095</b> (2.7mL) <b>Sodium Citrate paed - ref: 41.1350.005</b> (1.3mL)	Room Temperature	4 hours		<b>Haematology Department MUH Request Form - H/LF/002</b>	Routine: 2 hours Out-of hours: 1 .5 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
Dehydroepiandrosterone (DHEA)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Dehydroepiandrosterone Sulfate (DHEAS)	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 days
Dengue fever Antibodies	Not Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1-3 weeks
Diamine oxydase (DAO) - activity	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 weeks
Digoxin	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+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 response to digoxin. Potassium should always be measured when digoxin toxicity is suspected.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1 day
Dihydropyrimidine Dehydrogenase (DPD) Activity	Accredited	Biochemical Sciences, 1st Floor Synnovis HUB 41-43 Blackfriars Road LONDON SE1 8NZ	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (4mL)	<b>Refrigerated</b> (+4°C)	<5 days refrigerated		<a href="#">Synnovis Referral Request form (PATH/EXT/417)</a>	3 weeks
Direct Antiglobulin Test	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
Direct Antiglobulin Test (DAT)	Accredited	Blood Transfusion, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (4mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	<a href="#">Blood Transfusion MUH Request form - BT/LF/001</a>	2 Hours
Duchenne Muscular Dystrophy (DMD)	Accredited	MVZ Dr. Eberhard & Partner Dortmund via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	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
Echinococcus (Hydatidosis)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> 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	<b>Serum</b> 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	Not accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Faeces</b> 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 receiptoin Liquid stools are accepted but the dilution may result in underestimation of elastase levels. Use : small pot Demand Management is in place for all in-house Elastase requests. Please refer to below communication regarding requirements.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	13 days
Electron Microscopy	Not Accredited	Histopathology Department, Galway University Hospital	<b>Biopsy</b>	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)	
Elution	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> K <sub>2</sub> EDTA (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	<b>Serum</b> 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	<b>Slide</b> 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	<b>Faeces</b> 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	<b>Serum</b> 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	<b>EDTA Plasma</b> K3 EDTA - Ref 368857 (4mL)	Sample must be spun and frozen immediately	<3 hours. 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)	1-2 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
Erythrocyte Membrane Antigen Analysis (EMA) (Hereditary Spherocytosis screening)	Not Accredited	Haematology Laboratory, CHI Crumlin	<b>EDTA Whole Blood</b> <b>EDTA paediatric tube - Ref: 72001</b>	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	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	1 weeks
Erythropoietin (EPO)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954 (1mL)</b>	Sample must be spun and <b>frozen</b> within 4 hours	< 4 hours. Once frozen samples stable for 5 months	Sample must be taken in the morning due to variation throughout the day	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	4 days
ESR (Automated) - In-house	Accredited	Haematology, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857 (3mL) or EDTA Paediatric tube - Ref: 72001 (1.3mL)</b>	Room Temperature 4°C	4 hours 24hours		<b>Haematology Department MUH Request Form - H/LF/002</b>	3 hours
Ethylene Glycol	Not Accredited	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954 (5mL)</b>	Sample must be spun and <b>frozen</b> within 4 hours	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	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	10 days
Extended RBC Phenotyping	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>3</sub>EDTA (cross match) (6mL)</b>	Ambient	<48 hours ambient. <7 days refrigerated.		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	5 days
Factor Inhibitor Studies	Not Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>3x Sodium Citrate - ref: 363095 (2.7ml)</b>	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.	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	1 week
Factor V Leiden Mutation	Accredited	National Centre for Haemophilia and Coagulation Diseases, St James Hospital	<b>EDTA Whole Blood</b> <b>1 x K3 EDTA - Ref 368857 (4mL) and Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095 (2.7ml)</b>	<b>Refrigerated (+4°C)</b>	<3 days refrigerated	<p><b>Form required:</b> The coagulation team can be consulted for advice for thrombophilia screen requests. Samples must be received in National Coagulation Laboratory, Centre for Laboratory Medicine and Molecular Pathology, by 4pm Monday - Friday.</p> <p>1) Sample must be &lt;3 days old on receipt in Referral Laboratory 2) Sample must only be sent if APCR is abnormal or Positive Lupus anticoagulant or on heparin. Check LIS to determine if APCR has been performed previously. 3) The APCR results must be documented on the request form 4) National Coagulation Laboratory Request form (H/EXT/146) must be completed. Consent form H/EXT/148 must also be sent to the doctor with the request form</p> <p>This test is not generally performed during childhood unless specifically requested by a Consultant Paediatric Haematologist.</p> <p>The Coagulation Consultant on-call can be contacted through the hospital switchboard on 01 410 3000.</p>	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	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
Factor XIII	Accredited	Coagulation Laboratory, St James Hospital, Dublin	<b>Citrated Plasma</b> <b>3x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be <b>frozen</b> immediately	Once frozen samples stable for 3 days	Samples must be stored and transported -20.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Faecal Occult Blood testing	Not Accredited	Microbiology, Mayo University Hospital	Faeces sample collected into <b>NADAL VON MINDEN</b> 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	<b>Microbiology Department MUH Request form - M/LF/001</b>	24 hours
Faeces –Microscopy, Culture and Antigen Detection	Accredited	Medical Microbiology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UN10039B</b> (1-2g during acute phase of illness)	<b>Refrigerated</b> (+4°C)	<5 days refrigerated	: Shigella Spp. survival may be compromised @ 2-8°C – delay reduces isolation	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	3 days
Familial Hypercholesterolemia – comprehensive LDLR + APOB + PCSK9 + LDLRAP1 sequencing (Molecular Biology)	Accredited	The Doctors Laboratory, London via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Ambient	<4 days		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) & <b>Eurofins Combined Genetic Test Request, Information and Consent Form</b>	4 weeks
Familial hyperparathyroidism or hypocalcaemic hypercalcaemia	Accredited	Royal Devon and Exeter Genetics lab, Barrack Rd, Exeter, Devon EX2 5DW	<b>EDTA Whole Blood</b> <b>2x K3 EDTA - Ref 368857</b> (4mL)	Ambient	<5 days	UKAS 8092	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) & <b>Royal Devon &amp; Exeter Genetics Request Form</b>	1 month
Familial Mediterranean fever (FMF) - MEFV gene	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole blood</b> <b>K3 EDTA - Ref 368857</b> (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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) & <b>Eurofins Combined Genetic Test Request, Information and Consent Form</b>	1 month
Fanconi's Anaemia (Chromosome breakage screen)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) Whole Blood	Ambient	<4 days		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) & <b>Eurofins Combined Genetic Test Request, Information and Consent Form</b>	13 days
Fatty Acids (Very Long Chains)	Accredited	Addenbrookes Hospital, Hills Rd., Cambridge CB2 0QQ, UK via Eurofins	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (4mL)	Sample must be spun and <b>frozen</b> within 1 hour	<1 hour. Once frozen samples stable for 3 days		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	13 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
Ferritin	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<72 hours unspun at room temperature. Once spun and refrigerated sample is stable for 5 days		<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 1 day Urgent: 1 day
Fetal Rh/K typing from Maternal blood ( <i>gestation at 16-20 weeks</i> )(Molecular test)	Accredited	IBGRL Molecular Diagnostics NHS Blood and Transplant North Bristol Park Filton, Bristol via IBTS	<b>EDTA Whole Blood Maternal sample:</b> <b>3x K<sub>2</sub>EDTA (cross match)</b> (16mL) <b>Partner:</b> <b>K<sub>2</sub>EDTA (cross match)</b> (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	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	14 days
Fetal RHD Screen ( <i>CFF DNA</i> )	Not Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>2 x K<sub>2</sub>EDTA (cross match)</b> (≥8mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	14 days
Fibrinogen	Accredited	Haematology, Mayo University Hospital	<b>Citrated Plasma</b> <b>Sodium Citrate - ref: 363095</b> (2.7mL) <b>Sodium Citrate paed - ref: 41.1350.005</b> (1.3mL)	Room Temperature	24 hours		<b>Haematology Department MUH Request Form - H/LF/002</b>	Routine: 2 hours Out-of hours: 1.5 hour
Filaria Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	1 week
Fine Needle Aspirates (FNA) (of breast, thyroid, axilla, parotid, submandular, lymph node and Cysts)	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Fine Needle Aspirates (FNA)</b>	Ambient	Fine Needle aspirate, to be placed directly into prefilled 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.	<b>Histopathology Department Request Form Mayo University Hospital</b> (HP/LF/001)	5 days
FISH Chronic Lymphocytic Leukaemia (CLL)	Sole Supplier	Department of Clinical Genetics, CHI Crumlin	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL) or <b>Bone Marrow</b> RPMI	<b>Refrigerated (+4°C)</b>	<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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) & <b>Crumlin Department of Clinical Genetics Request form</b>	21 days
Flecainide Acetate	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Sample must be spun and <b>frozen</b> within 4 hours	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)	<b>Pathology Referral Request form - Dark Blue form</b> (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
Flow Cytometry (Immunotyping of Leukaemias and Lymphomas)	Accredited	Haematology Department, University Hospital Galway	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> or <b>Bone Marrow/ Lymph Node Biopsy</b> RPMI	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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3-5 days
FLT3 – Mutation (Blood)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> <b>2x K3 EDTA - Ref 368857</b> (9mL)	Refrigerated (+4°C)	<24 hours refrigerated	All CMD request msut be accompanied with CMD request form or samples will be rejected. Sample must be taken before 11.30am only on Mon, Tues, Wed or Thurs. Arrange through Haematology Registrar, or Consultant Haematologist	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)</a>	20 days
FLT3 – Mutation (Bone Marrow)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Bone Marrow</b> RPMI (9mL)	Refrigerated (+4°C)	<24 hours refrigerated	All CMD request msut be accompanied with CMD request form or samples will be rejected. Arrange through Haematology Registrar, or Consultant Haematologist. Medium is available from Histopathology ext 2564.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)</a>	10-15 days
Folate	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<72 hours unspun at room temperature. Once spun and refrigerated sample is stable for 5 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 1 day Urgent: 1 day
Follicle stimulating hormone (FSH)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 14 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1-2 days
Fragile X Chromosome	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; Eurofins Combined Genetic Test Request, Information and Consent Form</a>	1-4 weeks
Free light chains (Kappa and Lambda)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	10 days
Free T4	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 1 day Urgent: 1 day
Free Testosterone	Accredited	Eurofins Biomnis Ivry, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and frozen within 4 hours	<4 hours refrigerated unspun. Once spun and frozen samples stable for 14 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	6 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
Fructosamine	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	<12 hours refrigerated unspun. Once spun samples stable for 14 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	4 days
Full Blood Count FBC (GP samples)	Accredited	Enfer Medical Limited, Mocklerstown House, Ballyclerihan, Clonmel, Tipperary, Ireland	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (3mL) or <b>EDTA Paediatric tube - Ref: 72001</b> (1.3mL)	4°C	<72 hours	GP Samples only. All specimens must be tested within 3 days and stored at 2-8°C.	<b>Haematology Department MUH Request Form - H/LF/002</b>	Next working day
Full Blood Count FBC (In-house & GP)	Accredited	Haematology, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (3mL) or <b>EDTA Paediatric tube - Ref: 72001</b> (1.3mL)	4°C	48 hours		<b>Haematology Department MUH Request Form - H/LF/002</b>	Routine: 2 hours Out-of hours: 1 hour
Full RBC Genotype	Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>3</sub>EDTA (cross match)</b> (≥3mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	14 days
Galactomannan (Aspergillus Antigen) (BAL)	Accredited	Microbiology Department, St James Hospital	<b>BAL</b> <b>White Top Universal - Ref: UNI0003C</b> Sterile Container	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Galactomannan (Aspergillus Antigen) (Blood)	Accredited	Microbiology Department, St James Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Galactomannan antibodies	Accredited	Labor Volkman via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (4mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Galactose	Accredited	Eurofins Biomnis France	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (1mL)	Ambient	<3 days		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	3 weeks
Galactose-1- phosphate	Accredited	Birmingham Children's Hospital via Temple Street	<b>Heparin Whole Blood</b> <b>Lithium Heparin (non gel) - Ref: Ref: 367883</b> (2mL)	Ambient	<24 hours	Take Monday to Wednesday only.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	
Gastrin	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	< 2 hours. Once frozen samples stable for 5 days		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	4 days
Gastroenteritis screen, faeces; bioenteric	Accredited	Virology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b> Fresh sample	<b>Refrigerated</b> (+4°C)	<4 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (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
Gastrointestinal Tract Hormones (GIT Hormones): <i>incl. Gastrin, Insulin, Somatostatin, N-terminal Glucagon, C-terminal Glucagon, Pancreatic Polypeptide, Vasoactive Intestinal Polypeptide, Trypsin, Total CgA and Neurokinin A</i>	Accredited	Eurofins Biomnis France	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UN10039B</b> Fresh sample	Refrigerated (+4°C)	< 5 days	Must fill bottle to mark.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	N/A
Genetics - Centogene	Accredited	Centogene, GmbH, Am Strande 7, 18055 Rostock, Germany	<b>Centocard</b>	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.	<a href="#">Centogene Request Form and Consent form - available from Specimne Reception</a>	N/A
Gentamicin	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<4 hours upspun at room temperature. Once spun and refrigerated sample is stable for 1 day.		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
GGT	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Glucagon	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K3EDTA (Aprotinine) - Ref: 361017</b> (1mL)	Sample must be spun and <b>frozen</b> within 1 hour	<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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2-4 weeks
Glucose, Plasma	Accredited	Biochemistry, Mayo University Hospital	<b>Fluoride Oxalate</b> 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.	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Glucose, Serum	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (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.	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Glucose, Urine	Accredited	Biochemistry, Mayo University Hospital	<b>Urine</b> <b>Urine Z tube (Urinalysis)</b> 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.	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 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-6-phosphate dehydrogenase (G6PD) Screening & Quantitation (Adults)	Accredited	Centre for Laboratory Medicine & Molecular Pathology, St James' Hospital, Dublin 8, D01 NHY1	<b>EDTA Whole Blood</b> <b>2x K3 EDTA - Ref 368857</b> (4mL) <b>EDTA Paediatric tube - Ref: 72001</b> (1.3mL)	<b>Refrigerated</b> (+4°C)	<7 days refrigerated.	Please send <16 year olds to Crumlin for screening	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Glucose-6-phosphate dehydrogenase (G6PD) Screening (Paediatrics)	Not Accredited	Haematology Laboratory, CHI Crumlin	<b>EDTA Whole Blood</b> <b>2x EDTA Paediatric tube - Ref: 72001</b> (1.3mL)	<b>Refrigerated</b> (+4°C)	<7 days refrigerated.	Please send <16 year olds to Crumlin for screening	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	14 days
Glycosaminoglycans (GAG) electrophoresis, urine	Accredited	Great Ormond Street Hospital, Great Ormond St., London WC1N 3JH, UK. via Eurofins	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401 (50 mL)</b>	Sample must be frozen within 4 hours	<4 hours. Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	13 days
Group & EI crossmatch	Accredited	Blood Transfusion, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	Historical Blood Group	<a href="#">Blood Transfusion MUH Request form - BT/LF/001</a>	1 Hour
Group & Screen	Accredited	Blood Transfusion, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	<a href="#">Blood Transfusion MUH Request form - BT/LF/001</a>	2 Hours
Group & Serological Crossmatch	Accredited	Blood Transfusion, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	Historical Blood Group	<a href="#">Blood Transfusion MUH Request form - BT/LF/001</a>	3 Hours
Group&DAT Cord/Newborn	Accredited	Blood Transfusion, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (1mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	<a href="#">Blood Transfusion MUH Request form - BT/LF/001</a>	2 Hours
Group, ABID & Crossmatch	Accredited	Blood Transfusion, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	2-8 c Samples should be tested as soon as possible following collection.	<72 hours	N/A	<a href="#">Blood Transfusion MUH Request form - BT/LF/001</a>	3-5 Hours In-house
Growth Hormone	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 weeks
Haemochromatosis – C282Y and H63D Genetic Mutations	Accredited	Eurofins Biomnis Ireland	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Ambient temperature or 4°C (if transport time >24 hrs)	<7 days refrigerated.	Biomnis do not perform Haemochromatosis Genetic Testing (HFE) on patients under 16 years of age, other than under exceptional circumstances. 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	12 days
Haemoglobin A1c (HbA1C)	Accredited	Eurofins Biomnis Ireland	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (2mL)	<b>Refrigerated</b> (+4°C)	<7 days refrigerated whole blood.	Demand Management is in place for all in-house HbA1C requests. Please refer to below communication regarding requirements	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	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	Not Accredited	Haematology Laboratory, CHI Crumlin	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (4mL) or <b>EDTA Paediatric tube</b> <b>Ref: 72001</b> (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 **	<a href="#">Pathology Referral Request form - Dark Blue form</a> (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	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (4mL) and <b>Serum</b> <b>Serum (non-gel) - Ref: 367837</b> (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	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2 weeks
Haemolytic Disease of the New-born (where maternal antibodies are implicated / suspected)	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>Mother:</b> <b>K<sub>1</sub>EDTA (cross match)</b> (6mL) <b>Baby:</b> <b>K<sub>2</sub>EDTA (cross match)</b> (1-3mL)	Ambient	<48 hours ambient. <7 days refrigerated whole blood.		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1 day
Haemophilus influenzae B Antibodies (IgG)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 weeks
Haemophilus influenzae vaccinal Antibodies	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 weeks
Haemosiderin (Urine)	Not Accredited	Haematology Department, University Hospital Galway	<b>Urine</b> White Top Universal - Ref: UNI0003C First morning Urine	Refrigerated (+4°C)	<3 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	3-5 days
Hantavirus Antibodies	Not Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Refrigerated (+4°C)	2-8°C for 14 days		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	Contact NVRL
Haptoglobin	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 days
Harmony Testing (Only available via Fetal medicine MUH)	Accredited	Cenata GmbH via HTS Labs Ltd., Unit H9, Maynooth Business Campus, Maynooth, Co Kildare, Ireland, W23NY98P	<b>NIPT Kits (provided by supplier)</b>	Ambient	7 days ambient	This test is only available via Fetal Medicine in MUH	<a href="#">Online portal registration</a>	5 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
HCG+β (Beta)	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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		<b>Biochemistry</b> <b>Department MUH</b> <b>Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
HCG+β (Beta)	Accredited	Biochemistry, Mayo University Hospital	<b>Urine</b> Urine 2 tube (Urinalysis) Reference: 368501	Ambient	<24 hours at room temperature.		<b>Biochemistry</b> <b>Department MUH</b> <b>Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
HDL -Cholesterol	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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.	<b>Biochemistry</b> <b>Department MUH</b> <b>Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Heinz Bodies	Not Accredited	Haematology Department, University Hospital Galway	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (4mL) (whole blood) or EDTA Paediatric tube - Ref: 72001 (1.3mL)	Refrigerated (+4°C)	<2 days refrigerated		<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	2 days
Helicobacter pylori (Culture / biopsy)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Antral and/or fundal biopsies</b> Portagerm H.pylori media - Ref: 42041	Refrigerated (+4°C)	<5 days refrigerated		<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	19 days
Helicobacter pylori (Stool)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Faeces</b> Blue Top Stool Universal - Ref: UNI0039B	Refrigerate (uo to 3 days) Samples must be <b>frozen</b> if >3 days.	<3 days refrigerated, > 3 days once frozen.	Demand Management is in place for all in-house H pylori requests. Please refer to below communication regarding requirements	<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	8 days
Helicobacter pylori IgG serology (Serum)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	6 days
Heparin Induced Thrombocytopenia (HITS) Confirmation	Accredited	National Centre for Haemophilia and Coagulation Diseases, St James Hospital	<b>Serum</b> 2x Serum non gel - Ref: 367837 (5ml)	Sample must be spun and <b>frozen</b> immediately	Once frozen samples stable for 5 days		<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	3 days
Hepatitis A IgM/IgM Antibody	Accredited	Virology, Galway University Hospital	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	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
Hepatitis B Antibody/antigen	Accredited	Virology, Galway University Hospital	<b>Serum</b> 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
Hepatitis B DNA / Viral Load	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Sample must be spun and <b>frozen</b> 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	<b>Serum</b> 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	<b>EDTA Plasma</b> K <sub>2</sub> EDTA Separator - Ref: 367885 (7mL)	Sample must be spun and <b>frozen</b> 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	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Sample must be spun and <b>frozen</b> 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	<b>Serum</b> 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	<b>Serum</b> 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	<b>EDTA Whole Blood</b> K <sub>3</sub> EDTA - Ref 368857 (5mL)	Ambient	<48 hours ambient		Pathology Referral Request form - Dark Blue form (PATH/LF/001) & Crumiin Department of Clinical Genetics Request form	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
Herpes simplex virus – PCR	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> SST gel - Ref: 367954 (7mL) or <b>CSF</b> White Top Universal - Ref: UNI0003C Sterile Container (0.5 mL)	Sample must be spun and <b>frozen</b> 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	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Sample must be spun and <b>frozen</b> immediately	2-8°C for 7 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-7 days
Herpes Type 1+2 IgG and IgM	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> SST gel - Ref: 367954 (3mL) or <b>CSF</b> White Top Universal - Ref: UNI0003C	<b>Refrigerated</b> (+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	<b>EDTA Plasma</b> K3 EDTA - Ref 368857 (1mL)	Sample must be spun and <b>frozen</b> within 4 hours	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	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Ambient	<48 hours ambient		National Histocompatibility and Immunogenetics Reference laboratory IBTS request form (BT/EXT/241)	7 days
HLA typing (HLA and disease association - A,B27,C, DR, DQ, DP)	Accredited	National Histocompatibility and Immunogenetics Reference laboratory (NHIRL), IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (1mL)	Ambient	<48 hours ambient		National Histocompatibility and Immunogenetics Reference laboratory IBTS request form (BT/EXT/241)	7 days
Homocysteine (Adult)	Accredited	Eurofins Biomnis Ireland	<b>EDTA Plasma</b> K3 EDTA - Ref 368857 (4mL)	Sample must be spun and <b>frozen</b> within 4 hours	<4 hour on ice. Once spun and frozen stable for 1 year.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Human Epidermal Growth Factor Receptor 2 (HER2)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> SST gel - Ref: 367954 (3mL)	Sample must be spun and <b>frozen</b> within 1 hour	Once frozen samples stable for 5 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	17 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
Human epididymis protein 4 (HE4)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	5 days
Human Immunodeficiency (HIV) 1&2 antibody/p24 Antigen	Accredited	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL) or <b>Plasma</b> <b>PST gel - Ref 367962</b> (3mL)	<b>Refrigerated</b> (+4°C)	<48 upspun. <4 days spun and refrigerated.		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	1 day
Human Immunodeficiency (HIV) Viral Load – PCR	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b>	Sample must be spun and <b>frozen</b> 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	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	7 days
Human Tlymphocyte Virus (HTLV-1 / 11)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+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	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	3-7 days
Huntington's Disease <i>(exon 1 of the HTT gene)</i>	Not Accredited	Department of Clinical Genetics, CHI Crumlin	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b>	<b>Refrigerated</b> (+4°C)	<4 days refrigerated	Clinical details must be provided which are consistent with a suspected diagnosis of HD.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) & <b>Crumlin Department of Clinical Genetics Request form</b>	Routine 12 weeks Urent 2 weeks
Hypoglycaemic work-up (Newcastle) <i>(Work up includes: Glucose, Ammonia, Lactate, Cortisol, Growth Hormone, Insulin, C-peptide, Quantitive Amino Acids, Acylcarnitine, Organic Acids, Ketones)</i>			Refer to individual tests for test requirements	No storage requirements indicated	Refer to individual tests	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. Refer to individual tests for specimen requirements <b>Please contact Biochemistry to inform when samples are to be sent to ensure samples are processed immediately.</b>	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	N/A
I.M. (Infectious Mononucleosis) Screen	Accredited	Haematology. Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (3mL) or <b>EDTA Paediatric tube - Ref: 72001</b> (1.3mL)	4°C	48 hours		<b>Haematology Department MUH Request Form - H/LF/002</b>	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	<b>EDTA Whole Blood</b> <b>3x K<sub>2</sub>EDTA (cross match)</b> (6mL) <b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)	<4 days refrigerated	Prior arrangement with Blood Transfusion Laboratory is essential for immediate referral to Bristol.	<b>3D Histocompatibility &amp; Immunogenetics NHS Platelet Immunology</b>	
IgD ( <i>Immunoglobulins D</i> )	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Sample must be spun and <b>frozen</b> within 1 hour	Once frozen samples stable for 5 days		<b>Pathology Referral Request form - Dark Blue form</b> (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
IgE (Total)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> 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
IGVH Genes	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (3mL)	Refrigerated (+4°C)	<24 hours refrigerated	All CMD request msut be accompanied with CMD request form or samples will be rejected. Sample must be taken before 11.30am only on Mon, Tues, Wed or Thurs.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)	20 days
Immunoglobulin gene rearrangements (IgH) (Blood)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (3mL)	Refrigerated (+4°C)	<24 hours refrigerated	All CMD request msut be accompanied with CMD request form or samples will be rejected.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)	10-15 days
Immunoglobulin gene rearrangements (IgH) (Bone Marrow)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Bone Marrow</b> RPMI (3mL)	Refrigerated (+4°C)	<48 hours refrigerated	All CMD request msut be accompanied with CMD request form or samples will be rejected. Medium is available from Histopathology ext 2564.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)	10-15 days
Immunoglobulin gene rearrangements (IgH) (Fresh Biopsy)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Fresh Biopsy</b>	Refrigerated (+4°C)	<48 hours refrigerated	All CMD request msut be accompanied with CMD request form or samples will be rejected. Please contact Histology Depaerment for collection cotainer	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)	10-15 days
Immunoglobulin gene rearrangements (IgH) (Paraffin Sections)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Paraffin embedded tissue block</b>	Refrigerated (+4°C)	<48 hours refrigerated	All CMD request msut be accompanied with CMD request form or samples will be rejected. Please contact Histology Depaerment for collection container	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)	10-15 days
Immunoglobulins IgG / IgA / IgM and Serum Protein Electrophoresis	Accredited	Immunology, Galway University Hospital	<b>Serum</b> 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	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 or <b>Bone Marrow/ Lymph Node Biopsy</b> 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

### 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
Infliximab (Drug Levels & Antibody)	Not Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated	Send as soon as possible within 24 hours.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Influenza A virus	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Respiratory Swab</b> <b>UTM-RT Viral Swab - Ref: UTM-RT</b>	No storage requirements indicated		Seasonal availability only - Community and Nursing homes. Samples are transported via MUH courier to NVRL only.	<b>NVRL Request form - available on NVRL website</b>	2-3 days
Inhibin A	Accredited	Northern General Hospital, Sheffield Teaching Hospitals Foundation Trust via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	4 weeks
Inhibin B	Accredited	Northern General Hospital, Sheffield Teaching Hospitals Foundation Trust via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	4 weeks
INSR-related type A insulin resistance (MODY)	Accredited	Royal Devon and Exeter Genetics lab, Barrack Rd, Exeter, Devon EX2 5DW	<b>EDTA Whole Blood</b> <b>2x K3 EDTA - Ref 368857</b> (4mL)	Ambient	<5 days	UKAS 8092	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; Royal Devon &amp; Exeter Genetics Request Form</a>	1 month
Insulin	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be spun and <b>frozen</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Insulin Like Growth Factor 1 (IGF-1) <i>Somatomedin</i>	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be spun and <b>frozen</b> >24 hours	<24 hours	Fasting sample.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 weeks
Insulin Total, serum	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 30mins	<30 mins refrigerated. Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 days
Insulin-like Growth Factor Binding Protein 3 (IGFBP-3)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	< 1 hour. Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	8 days
Interleukin 10 (IL10)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	Sample must be spun and <b>frozen</b> immediately	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	15 days
Interleukin 2 (IL2)	Accredited	Labor Volkman via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	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
Interleukin 2 Receptor (IL2R)	Not Accredited	Eurofins Biomnis France	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	15 days
Interleukin 5 (IL5), EDTA plasma (EIA)	Not Accredited	Eurofins Biomnis France	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (3mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	15 days
Interleukin 6 (IL6)	Accredited	Labor Volkman via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be spun and <b>frozen</b> within 4 hours	<24 hours		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	15 days
Intraocular Fluids / Corneal Scrapings	Accredited	Medical Microbiology, Galway University Hospital	<b>Pre-inoculated media</b>	Ambient	<24 hours	Contact Microbiology Laboratory to collect fresh culture plates and slide for corneal scrapings. Deliver to Laboratory immediately.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 days
Iodine	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> White Top Universal - Ref: UN10003C (10 mL) Early morning urine <b>or If screening for excess 24 hour Urine Container Ref: 77.575.401</b> Specify Total Volume or if for Occupational Purposes White Top Universal - Ref: UN10003C Urine sample at the end of a shift	<b>Refrigerated (+4°C)</b>	<4 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Iron	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Iron	Accredited	Eurofins Biomnis Ireland	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (5 mL)	<b>Refrigerated (+4°C)</b>	<4 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	6 days
Itraconazole	Accredited	Laboratoire de Biologie Medical Multi Site - Chu de Lyon via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	13 days
JAK – 2 Exon 12 Mutation	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> <b>3x K3 EDTA - Ref 368857</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated	All CMD request must be accompanied with CMD request form or samples will be rejected. 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)</a>	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
JAK – 2 Mutation (Blood)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> 3x K3 EDTA - Ref 368857 (4mL)	Refrigerated (+4°C)	<48 hours refrigerated	All CMD request must be accompanied with CMD request form or samples will be rejected. 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; St James Cancer Molecular Diagnostics Request Form (H/EXT/183)</a>	10-15 days
JAK – 2 Mutation (Bone Marrow)	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Bone Marrow</b> RPMI (9mL)	Refrigerated (+4°C)	<48 hours refrigerated	All CMD request must be accompanied with CMD request form or samples will be rejected. 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; St James Cancer Molecular Diagnostics Request Form (H/EXT/183)</a>	10-15 days
Joint Aspirates - Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Joint Aspirates</b> 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.	<a href="#">Histopathology Department Request Form Mayo University Hospital (HP/LF/001)</a>	5 days
Joint Fluid – Uric Acid Crystals	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Joint Fluid – Uric Acid Crystals</b> 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.	<a href="#">Histopathology Department Request Form Mayo University Hospital (HP/LF/001)</a>	5 days
Karyotyping / Chromosome Analysis	Accredited	Eurofins Biomnis France	<b>Heparin Whole Blood</b> <b>Lithium Heparin (non gel) - Ref: Ref: 367883</b> (2mL)	Refrigerated (+4°C)	<4 days refrigerated	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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; Eurofins Combined Genetic Test Request, Information and Consent Form</a>	3 weeks
Karyotyping / Chromosome Analysis	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Fetal or placental tissue</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; Eurofins Combined Genetic Test Request, Information and Consent Form</a>	3 weeks
Karyotyping / Chromosome Analysis Paediatric (age <5 years)	Accredited	Department of Clinical Genetics, CHI Crumlin	<b>Heparin Whole Blood</b> <b>Lithium Heparin (non gel) - Ref: Ref: 367883</b> (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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; Crumlin Department of Clinical Genetics Request form</a>	10 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
KBT Post Delivery	Accredited	Blood Transfusion, Mayo University Hospital	<b>Maternal Sample</b> <b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL) <b>Baby Sample</b> <b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (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	<b>Maternal Sample</b> <b>Serum</b> <b>Ref: 367954</b> <b>SST gel</b> (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)	Not Accredited	POCT MUH (Glucose/ketone meter)	Capillary sample using POCT glucose/ketone device on ward.	Should be tested within <15 mins	<15 mins	Should be performed on capillary samples using POCT device on ward. Can be sent to GUH for urgent requests.	<b>POCT request</b>	
Ketones (Beta-hydroxybutrate, Acetoacetate, pyruvate)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<1 hour.	Should be performed on capillary samples using POCT device on ward. Can be sent to GUH for urgent requests.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	Urgent: 2 hours Priority: 3 hours Routine: 4 days
Ketones (Methyl ethyl ketone)	Accredited	Eurofins Biomnis Ireland	<b>Urine</b> Glass container with PTFE stopper (10mL)	<b>Refrigerated</b> (+4°C)	<3 days refrigerated	Specimen reception MUH to supply special glass container	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	3 weeks
Kirsten rat sarcoma virus (KRAS) (Colorectal Panel)	Not Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Tissue</b>	<b>Refrigerated</b> (+4°C)	<24 hours	All CMD request must be accompanied with CMD request form or samples will be rejected. Please contact Histology Department for collection container. Request form arrange via consultant pathologist.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001) & <b>St James Cancer Molecular Diagnostics Request Form</b> ( H/EXT/183)	10 days
Lactate	Accredited	Biochemistry, Mayo University Hospital	<b>Fluoride Oxalate</b> 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.	<b>Biochemistry Department MUH Request Form</b> - B/LF/001	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Lactate Dehydrogenase (LDH)	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (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.	<b>Biochemistry Department MUH Request Form</b> - B/LF/001	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Lamotrigine (Lamictal®)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<b>Pathology Referral Request form - Dark Blue form</b> (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
Lead	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood Sodium Heparin - Ref 3678676</b> (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	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	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	8 days
Lead (Urine)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine White Top Universal - Ref: UNI0003C</b> (20 mL) or <b>24 hour Urine Container Ref: 77.575.401</b> End of working shift Urine	Refrigerated (+4°C)	<7 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	8 days
Legionella (serotype 1 to 6) total Abs, screening	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum SST gel - Ref: 367954</b> (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	8 days
Legionella (serotype 1 to 6) total Antibodies, confirmation	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum SST gel - Ref: 367954</b> (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 days
Legionella (Sputum/BAL)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>BAL/Sputum/Puncture fluid White Top Universal - Ref: UNI0003C</b> (500 µL minimum)	Refrigerated (+4°C)	<4 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	11 days
Leptin	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum SST gel - Ref: 367954</b> (3mL)	Sample must be spun and frozen within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	4 weeks
Leptospira IgM	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum SST gel - Ref: 367954</b> (3mL)	Refrigerated (+4°C)	2-8°C for 2 days; >2 days -20°C		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2-3 weeks
Levetiracetam (Keppra®)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum Serum non gel - Ref: 367837</b> (2ml)	Sample must be spun and frozen within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	7 days
Lipase	Accredited	Eurofins Biomnis Ireland	<b>Serum SST gel - Ref: 367954</b> (3mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 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
Lipoprotein (a) (Lpa)	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> SST gel - Ref: 367954 (3mL) or <b>Plasma</b> 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 (PCR)	Accredited	Micropathology Ltd., Coventry, UK	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<24 hours		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	6 days
Lithium	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Lupus Anticoagulant Screen	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> 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	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 7days.		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1-2 days
Lymes PCR	Accredited	Rare and Imported Pathogens Laboratory (RIPL), Porton, Salisbury, England.	<b>CSF</b> White Top Universal - Ref: UN10003C and (0.3ml) <b>Serum</b> SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)		0.3ml CSF required. Complete referral form M/EXT/108 by clinical team and submitted with samples. If albumin, IgM and IgG levels on the CSF and serum are available, these should be provided on the request form.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & M/EXT/108	4 weeks
Lymphocyte subsets CD3 (T cell) CD4 (T helper) CD8 (T cytotoxic) CD19 (B cell) CD16/56 (NK cell)	Accredited	Immunology, Galway University Hospital	<b>EDTA Whole Blood</b> 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
Lysosomal Enzymes (Plasma and White Cell Enzyme Screen) (Screen for Hurler's)	Accredited	Willink Unit, Royal Manchester Children's Hospital	<b>EDTA Whole Blood</b> 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	<b>EDTA Whole Blood</b> 2x K3 EDTA - Ref 368857 (4mL)	Ambient	<4 days refrigerated	All CMD request msut be accompanied with CMD request form or samples will be rejected. Send Monday to Wednesday before 11.00am.	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)	20 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
Magnesium	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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.	<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Magnesium (Urine)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Urine</b> 24 hour Urine Container Ref: 77.575.401 (non acidified)	Refrigerated (+4°C)	<3 days refrigerated		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	1 day
Malaria (Confirmation)	Accredited	Malaria reference laboratory (Malaria RL), London School of Hygiene and Tropical Medicine, Keppel Street, London, WC1E 7HT	<b>EDTA Whole Blood</b> 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	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	1-4 days
Malaria Screen	Accredited	Haematology, Mayo University Hospital	<b>EDTA Whole Blood</b> K <sub>3</sub> EDTA - Ref 368857 (3mL)	4°C	48 hours		<b>Haematology Department MUH Request Form - H/LF/002</b>	3 hours
Manganese	Not Accredited	Trace Laboratories, UK via Eurofins	<b>Heparin Whole Blood</b> Sodium Heparin - Ref 3678676 (3mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	18 days
Measles IgM / IgG antibody	Accredited	Virology, Galway University Hospital	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 upspun. <4 days spun and refrigerated.		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	1-2 weeks
Measles PCR	Not Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Respiratory Swab</b> UTM-RT Viral Swab - Ref: UTM-RT or Oral fluid (OraCol swab)	Ambient	2-8°C for 7 days; long term -70°C		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	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	<b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; Eurofins Combined Genetic Test Request, Information and Consent Form</b>	6 weeks
Meningococcal antibodies <i>Neisseria meningitidis</i>	Not Accredited	Irish Meningitis and Sepsis Reference Laboratory (IMsRL), CHI Temple St	<b>CSF</b> 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	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	2 days
Meningococcal PCR - CSF <i>Neisseria meningitidis</i>	Accredited	Irish Meningitis and Sepsis Reference Laboratory (IMsRL), CHI Temple St	<b>CSF</b> White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	<24 hours	Sample to be handed to Microbiology MUH staff member	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	2 days
Meningococcal PCR - EDTA <i>Neisseria meningitidis</i>	Accredited	Irish Meningitis and Sepsis Reference Laboratory (IMsRL), CHI Temple St	<b>EDTA Plasma</b> K3EDTA - Ref: 368857	Refrigerated (+4°C)	<24 hours	Sample to be handed to Microbiology MUH staff member	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	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
Mercury	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> Sodium Heparin - Ref 3678676 (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml) <b>Urine</b> 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)	20 days
Metanephrine - free (Blood) ( <i>Methoxyliated derivatives of Catecholamins</i> )	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>2x Lithium heparin (non-gel) - Ref: 367883</b> (2mL)	Sample must be spun and frozen within 1 hour	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®)	Accredited	Eurofins Biomnis France	<b>Serum</b> <b>SST gel - Ref: 367954</b> (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	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	Refrigerated (+4°C)	<48 hours unspun. <4 days spun	Only available to in-house oncology/transplant high dose methotrexate patients. 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	<b>Serum</b> <b>SST gel - Ref: 367954</b> (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	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> (15mL aliquot required) or Early morning urine (child) White Top Universal - Ref: UNI0003C	Sample must be frozen within 4 hours	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
Mevalonic Acid (Urine)	Accredited	Labor Volkman via Eurofins	<b>Urine</b> Early morning urine Top Universal - UNI0003C  White Ref:	Sample must be frozen within 1 hour	Once frozen samples stable for 5 days	Special Biomnis form is required to be completed - Metabolic Biochemistry	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	4 weeks
Microalbumin (Urine Albumin) (ACR)	Not Accredited	Roscommon University Hospital	<b>Urine</b> <b>Urine Z tube (Urinalysis)</b> <b>Reference: 368501</b>	<b>Refrigerated (+4°C)</b>	<7 days refrigerated	Date of collection must be stated on the request form	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	1 day from receipt in RUH
Micropolyspora faenii (Farmer's Lung confirmation)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	7 days
Microscopy and culture of urine samples	Not Accredited	Microbiology, Mayo University Hospital	<b>Urine</b> <b>BD Vacutainer Z (no additive) plus urine tube (REF: 368501)</b>	If processing is delayed then refrigeration is preferable to storage at ambient temperature	<48 hours plain universal	MICRO Urine C&S Sample not tested if urine is received greater than 48 hours.	<b>Microbiology Department MUH Request form - MLF/001</b>	Microscopy: 4 hours Culture: 2-3 days
Microscopy and sensitivity of Blood Culture	Accredited	Microbiology, Mayo University Hospital	<b>Blood Culture Bottles</b> (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.	<b>Microbiology Department MUH Request form - MLF/001</b>	<b>New sample:</b> 4 hours <b>Negatives:</b> 6 days aerobic, 14 days anaerobic and paediatric vials <b>Positives:</b> gram stain 2 hours, 24 hours identification and sensitivity, 48 hours final
Microscopy, culture and sensitivity of Cerebrospinal fluid	Accredited	Microbiology, Mayo University Hospital	<b>CSF</b> 3x White Top Universal - Ref: UNI0003C (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.	<b>Microbiology Department MUH Request form - MLF/001</b>	Microscopy: 1 hour Culture: 3 days
Microscopy, culture and sensitivity investigation of fluid samples	Accredited	Microbiology, Mayo University Hospital	<b>Fluids</b> 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.	<b>Microbiology Department MUH Request form - MLF/001</b>	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
Mirtazapine	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Sample must be spun and frozen within 4 hours	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.	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	9 days
Molecular investigations	Accredited	Microbiology, Mayo University Hospital	<b>Nasopharyngeal swab, BAL or Sputum for certain assays</b> NPSW send in UTM (3ml) available from Microbiology Department Expectorated/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.	<b>Microbiology Department MUH Sars CoV- 2 Request form - M/LF/033</b>	Rapid Platform: 1 day Batch Platform: 36 hours
Molybdenum	Not Accredited	Trace Laboratories, UK via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (2mL)	<b>Refrigerated (+4°C)</b>	<48 hours. Once samples are spun and separated smaples are stable for 5 days.		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	18 days
Molybdenum (Urine)	Not Accredited	Trace Laboratories, UK via Eurofins	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (2mL)	<b>Refrigerated (+4°C)</b>	Samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	18 days
Monoclonal Antibody Interference	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	5 days
MPN Panel	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> <b>3x K3 EDTA - Ref 368857</b> (5mL)	<b>Refrigerated (+4°C)</b>	<4 days refrigerated	All CMD request msut be accompanied with CMD request form or samples will be rejected. If stored at 4°C may be held overnight or over week end.	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)</b>	20 days
MTHFR Mutation c677T	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Ambient temperature or 4°C (if transport time >24 hrs)	<24 hours ambient. >24 hours refrigerated		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; Eurofins Combined Genetic Test Request, Information and Consent Form</b>	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 ( $\alpha$ -iduronidase, Iduronate sulphatase, Heparan sulphamidase, $\alpha$ -N-acetylglucosaminidase, Acetyl-CoA: $\alpha$ -glucosaminide N-acetyltransferase, Galactose-6-sulphatase, $\beta$ -galactosidase, Arylsulphatase B, $\beta$ -glucuronidase & Multiple sulphatases)	Accredited	Willink Unit, Royal Manchester Children's Hospital	<b>EDTA Plasma</b> 9x K <sub>3</sub> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 weeks
Mucopolysaccharidosis (MPS) Screen (2-D electrophoresis of GAGs, Oligosaccharide screen & Quantitative sialic acid)	Accredited	Willink Unit, Royal Manchester Children's Hospital	<b>Urine</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3-4 weeks
Mumps IgG / IgM antibody	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	2-8°C for 9 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Mumps Investigation	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Swab</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5-7 days
Mycobacteria Testing (BAL)	Accredited	Medical Microbiology, Galway University Hospital	<b>BAL/Sputa</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	6-7 weeks
Mycobacteria Testing (Blood Culture/Bone Marrow)	Accredited	Medical Microbiology, Galway University Hospital	<b>Blood Culture / Bone Marrow aspirate</b> BD BACTEC Myco/F Lytic Culture vials. REF: 442288	Refrigerated (+4°C)	<3 days	Contact Microbiology for collection conatiners	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	6-7 weeks
Mycobacteria Testing (Fluid/tissue)	Accredited	Medical Microbiology, Galway University Hospital	<b>Fluid/Tissue</b> White Top Universal - Ref: UNI0003C Sterile Container container Include clotted material	Refrigerated (+4°C)	<3 days	* Include clotted material	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	6-7 weeks
Mycobacteria Testing (Urine)	Not Accredited	Medical Microbiology, Galway University Hospital	<b>Urine</b> 100mL Universal Containers - Ref: 75.562.105 Early morning urine	Refrigerated (+4°C)	<3 days	* Prior arrangement only - contact the Microbiology laboratory for the Microbiology container. * The mycobacteria culture system is not validated for processing urine specimens.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	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
Mycology	Not Accredited	Medical Microbiology, Galway University Hospital	<b>Skin swab</b> Amies Clear (M40-A2) Medium Transport swab Ref:TS/5-17 <b>Tissue / pus</b> White Top Universal - Ref: UNI0003C Sterile container <b>Hair/ Nail clippings /Skin scrapings</b> 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	<b>EDTA Plasma</b> K3 EDTA - Ref 368857 (4mL)	Sample must be spun and refrigerated immediately	<1 hour unspun. <4 days spun and refrigerated	Mandatory clinical information sheet available in Specimen Reception: - R13: for unic drug level assesment - R31: for Calculations of AUC under the curve (AUC). R31 Form MUST accompany one or several files. It must be completed entirely. The calculation of the area under the curve (AUC) is used for the therapeutic adjustment of CELLCEPT mycophenolate: kinetics of CELLCEPT over several sampling times after taking the drug must be performed.  Each assay is the subject of a separate file in which the dates and times of sampling and setting must be well documented to identify the different times T0, T20, T30, T60, T120, T180.	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	5 days
Mycoplasma genitalium (PCR)	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Urine</b> White Top Universal - Ref: UNI0003C First micturation urine (no preservatives) <b>Anogenital swab</b>	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	<b>BAL</b> 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	<b>CSF</b> 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
Mycoplasma pneumoniae antibody IgG and IgM	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> 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	<b>Respiratory Swab</b> 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

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
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	<b>Serum</b> 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	<b>Urine</b> White Top Universal - Ref: UNI0003C (24hour or random)	Sample must be frozen within 4 hours	< 4 hours. 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	<b>Serum</b> 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	Not Accredited	All Wales Medical Genetics Service, Institute of Medical Genetics, University Hospital of Wales Cardiff and Vale LHB via Eurofins	<b>Heparin Whole Blood</b> Lithium heparin (non-gel) - Ref: 367883 (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
Neonatal Alloimmune Thrombocytopenia (NAITP) Platelet antibody screen	Accredited	NHSBT Histocompatibility and Immunogenetic Department Blood and Transplant, 500 North Bristol Park, North Way, Filton, BRISTOL via NHRL IBTS	<b>EDTA Whole Blood</b> <b>Mother:</b> K <sub>2</sub> EDTA (cross match) (6mL) + 10-20mL clotted <b>Father:</b> K <sub>2</sub> EDTA (cross match) (6mL) <b>Neonate:</b> K <sub>2</sub> 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

### 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
Neonatal and Pediatric Haemoglobinopathy Screen (Hb F, Hb A2, Hb H, Hb S, sickle cell screen, thalassaemia screen, haemoglobin electrophoresis)	Not Accredited	Haematology Laboratory, CHI Cruilin	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (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	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	14 days
Neurofibromatosis type 1 Gene (NF1G)	Not Accredited	All Wales Medical Genetics Service, Institute of Medical Genetics, University Hospital of Wales Cardiff and Vale LHB via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Refrigerated (+4°C)	<4 days		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001) & <a href="#">Eurofins Combined Genetic Test Request, Information and Consent Form</a>	30 days
Neuroimmunological Testing (CSF) - NDMA	Accredited	Oxford Neuroimmunology Testing Service, Oxford, UK	<b>CSF</b> White Top Universal - Ref: UNI0003C (1ml) and <b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Ambient	4 months at 2-8°C	1ml each of CSF and Serum for NDMA request. Serum is sufficient for most other tests listed in M/EXT/141 but can send CSF also.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001) & M/EXT/141	42 days
Neuron Specific Enolase (NSE) (Biological Fluid)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Biological Fluid</b> 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"> <li>Not to be performed on haemolysed sample</li> <li>ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2 days
Neuron Specific Enolase (NSE) (Serum)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL) Non haemolysed serum	Sample must be spun and frozen within 1 hour	<1 hour. Once frozen samples stable for 3 months	<ul style="list-style-type: none"> <li>Centrifuge and settle within one hour following sampling</li> <li>Sample to be frozen within 1 hour. Home sampling is not advisable.</li> <li>Separator gel tubes must be centrifuged and the supernatant must decanted before the freezing step</li> <li>ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2 days
Neutrophil Function Test (Oxidative Burst Test)	Not Accredited	Immunology, Galway University Hospital	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Ambient	<24 hours	<ul style="list-style-type: none"> <li>Control sample must also be taken.</li> <li>Samples must be delivered to lab within 24 hours.</li> <li>Comment: Testing must be first discussed with immunology medical/scientific staff</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2 days
Nickel	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Heparin Plasma</b> Sodium Heparin - Ref 3678676 (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml) <b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	30 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
Non-invasive pre-natal Testing (NIPT) - <i>Only available to fetal medicine in MUH</i>	Accredited	Hibernian Testing Services Ltd., Unit H9, Maynooth Business Campus, Maynooth, Co.Kildare, Ireland, W23NY98P	<b>NIPT Kit (supplied by Company)</b>	Ambient	<7 days at ambient	This test is only available to MUH fetal medicine.	Online portal registration	5-7 days
Norovirus (Faeces)	Accredited	Medical Microbiology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b>	<b>Refrigerated (+4°C)</b>	<5 days refrigerated	Tested only after consulting IPC or Microbiology teams. Samples will be rejected in MUH if not consulted with team.	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	<b>1-2 weeks</b>
NPM1 gene	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>Bone Marrow RPMI (9mL)</b>	<b>Refrigerated (+4°C)</b>	<3 days refrigerated	All CMD request must be accompanied with CMD request form or samples will be rejected. Sample must be taken before 11:30am only on Mon, Tues, Wed or Thurs. Medium is available from Histopathology ext 2564.	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)</b>	<b>10-15 days</b>
Oestradiol	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954 (7mL)</b>	<b>Refrigerated (+4°C)</b>	<48 hours unspun. Once spun samples stable for 5 days.		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	Urgent: 1 hour. Priority: 1 working day. Routine : 2 working days
Oestrone	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954 (1mL)</b>	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	2 weeks
Olanzapine	Not Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>Lithium heparin (non-gel) - Ref: 367883 (2mL)</b>	<b>Refrigerated (+4°C)</b>	<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)	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	1 week
Oligoclonal bands (OCB) - CSF/Serum	Accredited	Immunology, Galway University Hospital	<b>CSF</b> <b>White Top Universal - Ref: UNI0003C (0.5mL minimum) and Serum SST gel - Ref: 367954 (5mL)</b>	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.	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	3 weeks
Organic Acids	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C (10mL)</b> First early morning Urine (Fasting )	Sample must be <b>frozen</b> 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.	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	28 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
Osmotic Fragility	Not Accredited	Haematology Department, University Hospital Galway	<b>Heparin Whole Blood</b> <b>2x Lithium heparin (non-gel) - Ref: 367883</b> (5mL) (1 to be used as a control specimen)	Refrigerated (+4°C)	<24 hours	<ul style="list-style-type: none"> <li>• Authorisation by Haematology SPR and arrangement with laboratory.</li> <li>• The specimen must reach the laboratory before 11:00 on day of analysis.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2 days
Ova / Cysts / Parasites	Not Accredited	Medical Microbiology, Galway University Hospital	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UNI0039B</b>	Refrigerated (+4°C)	<5 days refrigerated	<ul style="list-style-type: none"> <li>• Cryptosporidium and Giardia detection by molecular technique.</li> <li>• Other ova and parasites are rarely detected in faeces.</li> <li>• Examination for other O&amp;P is only performed when specific additional parasite is specified on the request form, accompanied by relevant clinical information. Delay &gt; 2 h refrigerate @ 2-8OC. Ensure sample is in a leak proof laboratory container</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	3 days for Cryptosporidium and Giardia molecular detection. 1 week for parasite concentration.
Oxalic Acid, urine	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401</b> <b>Acidified</b> (2x tubes)	Refrigerated (+4°C)	<4 days refrigerated	<ul style="list-style-type: none"> <li>• The following is essential for the oxalic acid assay:</li> <li>- 24-hour urine collection, keep refrigerated</li> <li>- indication of diuresis volume</li> <li>- acidification of urine by the sampling laboratory by adding hydrochloric acid (HCl) to obtain a urinary pH between 2 and 3. In practice, urine can be acidified as follows:</li> <li>- homogenise the entire diuresis very vigorously</li> <li>- take a urine sample volume of 50 mL</li> <li>- acidify this urine sample with the help of 6N hydrochloric acid</li> <li>- homogenise the urine well after each addition of HCl before each pH testing</li> <li>- measure pH with the help of pH paper or a pH meter.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 days
Oxidative Burst Test	Not Accredited	Haematology Laboratory, CHI Crumlin	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (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>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1 week
P1NP - Intact N-Terminal Propeptide of Type I Procollagen	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>• ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	3 days
Paracetamol	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (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.	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Paraneoplastic Antibodies	Accredited	Immunology Dept, St James Hospital, Dublin	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (3ml)	Sample must be <b>spun, separated and refrigerated</b> prior to sending to St James'.	<24 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	24 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
Parathormone Related Protein (PTH-RP)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Plasma</b> <b>K3EDTA (Aprotinine) - Ref: 361017</b> (1mL)	Sample must be spun and <b>frozen</b> within 1 hour	<1 hour. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> <li>Sample on special tube (EDTA + Aprotinin) supplied on request from Biochemistry.</li> <li>Centrifuge at +4C and Freeze the plasma immediately.</li> <li>Alert and hand directly to laboratory specimen reception staff</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	2 weeks
Parathyroid Hormone (PTH)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Sample must be spun and <b>refrigerated</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1 day
Paroxysmal Nocturnal Haemoglobinuria (PNH) Screening	Not Accredited	Haematology Department, University Hospital Galway	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref: 368857</b> (3mL)	<b>Refrigerated</b> (+4°C)	<24 hours	<ul style="list-style-type: none"> <li>Requests for flow cytometry tests should only be received Monday –Thursday between 9am and 5pm unless prior arrangements have been made with Flow Cytometry.</li> <li>Samples must be received within 24 hours.</li> <li>Full clinical information and reason for request must accompany specimen.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	3-5 days
Parvovirus B19, IgG and IgM <i>Erythrovirus B19</i>	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	2-8°C for 24 hours; long term -20°C	N/A	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 days
Parvovirus B19 PCR <i>Erythrovirus B19</i>	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (4mL)	Sample must be spun and <b>frozen</b> immediately	2-8°C for 6 hours/ plasma -20°C	Specimens must be delivered directly to a staff member within 3 hours of phlebotomy.	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 days
Paternal Phenotyping	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	5 days
PCT	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<24 hours at room temperature. Once spun and refrigerated sample is stable for 2 days	Please send to Lab promptly.	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 1 day Urgent: 1 day
Peritoneal Fluid – Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Peritoneal Fluid</b> 15 ml of fluid placed in prefilled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid	Ambient	Peritoneal Fluid to be placed directly into prefilled 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]	<a href="#">Histopathology Department Request Form Mayo University Hospital</a> (HP/LF/001)	5 days
PHD2, HIF 2 α, VHL Genes (Erythrocytosis Screen)	Accredited	Haemostasis and Thrombosis Lab, Belfast City Hospital	<b>EDTA Whole Blood</b> <b>2x K3 EDTA - Ref 368857</b> (5mL)	Ambient	<24 hours	Must reach Referral Lab within 24 hours of taking sample. Contact Haematology Lab MUH	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	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
Phenobarbital (Alepsal®)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> 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 (Dibenzoazepine)	Not Accredited	Eurofins Biomnis France	<b>Serum</b> Serum non gel - Ref: 367837 (2ml)	Refrigerated (+4°C)	<48 hours unspun. <5 days spun	<ul style="list-style-type: none"> <li>Do not use tubes with separator gel.</li> <li><b>Form Required</b> - Enclose clinical information form - available from Specimen Reception.</li> </ul>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	10 days
Phenylalanine (Tyrosine)	Accredited	Metabolic Laboratory, Children's University Hospital, Temple St., Dublin 1	<b>Heparin Plasma</b> 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
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"> <li>Air dry for 2 hrs.</li> <li>Avoid heat &amp; humidity.</li> <li>Request form MUST include clinical details.</li> </ul>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3-8 days
Phenytoin (Epanutin)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 1 month refrigerated	* 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	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Phosphate (Urine)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Urine</b> 24 hour Urine Container Ref: 77.575.401	Refrigerated (+4°C)	<7 days refrigerated	<ul style="list-style-type: none"> <li>24 hour urine collection.</li> <li>Used in conjunction with serum inorganic phosphate to calculate iPeGFR.</li> </ul>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 day
Phosphatidylethanol (PETH)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Whole Blood</b> K <sub>3</sub> EDTA - Ref 368857 (5mL)	Refrigerated (+4°C)	<4 days		Pathology Referral Request form - Dark Blue form (PATH/LF/001)	18 days
Phytanic Acid	Not accredited	Eurofins Biomnis France	<b>EDTA Plasma</b> K3 EDTA - Ref 368857 (2mL)	Sample must be spun and frozen within 1 hour	<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	<b>Slide</b> 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

### 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
Plasma Viscosity	Accredited	Haematology Department, University Hospital Galway	<b>EDTA Whole Blood</b> 3x K <sub>3</sub> EDTA - Ref 368857 (3mL)	Refrigerated (+4°C)	<2 hours	Must be received in laboratory within 2 hours of phlebotomy	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	1 day
Platelet Aggregation Studies	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> 6x Sodium Citrate - ref: 363095 (2.7ml)	No storage requirements indicated	<4 hours	<ul style="list-style-type: none"> <li>• Prior authorization by Consultant Haematologist or SPR.</li> <li>• Arrange with Coagulation laboratory before taking specimen.</li> <li>• Patient must not take any anti-platelet medications for 1 week prior to test (incl. aspirin, NSAIDA, Clopidogrel/plavix, cough suppressants).</li> <li>• <b>Discard the first specimen when obtaining blood from patient as there may be some platelet activation present which will influence the test results.</b></li> <li>• Specimens must reach the Coagulation laboratory no later than 11:00 on the day of analysis.</li> <li>• Must fill bottles to mark. Please supply samples from a normal control in conjunction with the test specimens. (See Special Requirement Information)</li> </ul>	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	Assay preformed on day of appointment
Platelet Antibody	Accredited	Histocompatibility and Immunogenetic Dept, Blood and Transplant Lab, Filton, 500 North Bristol Park, Northway, Filton, Bristol, BS34 7QH	<b>Serum</b> SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<48 hours unspun		<b>3D Histocompatibility &amp; Immunogenetics NHS Platelet Immunology</b>	
Platelet Antigen Typing	Accredited	IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> K <sub>2</sub> EDTA (cross match) (6mL)	Refrigerated (+4°C)	<48 hours ambient. <7 days refrigerated.		<b>Pathology Referral Request form - Dark Blue form</b> (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	<b>EDTA Whole Blood</b> K <sub>2</sub> EDTA (cross match) (6mL)	Ambient	<48 hours ambient	To be received by NHIRL within 48 hours of specimen collection	<b>National Histocompatibility and Immunogenetics Reference laboratory IBTS request form</b> (BT/EXT/241)	7 days
Pleural Fluid - Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Pleural Fluid</b> 15 ml of fluid placed in prefilled 30 ml universal containing 15 mls of Shandon Cytospin Collection Fluid	Ambient	Pleural Fluid to be placed directly into prefilled 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]	<b>Histopathology Department Request Form Mayo University Hospital</b> (HP/LF/001)	5 days
Pneumococcal Total IgG antibodies <i>(Streptococcus pneumoniae)</i>	Accredited	Immunology, Galway University Hospital	<b>Serum</b> SST gel - Ref: 367954 (2mL)	Refrigerated (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated	<ul style="list-style-type: none"> <li>• Where External Institutions cannot guarantee immediate delivery, samples must be centrifuged, separated and stored at 4°C.</li> <li>• Samples can then be transported, as soon as possible, to GUH for processing.</li> </ul>	<b>Pathology Referral Request form - Dark Blue form</b> (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
Pneumococcal serotype Specific Antibody (serotypes in Prevenar 13)	Accredited	Vaccine Evaluation Unit, Manchester Medical Microbiology Partnership, 2nd Floor CSB2, Manchester Royal Infirmary Oxford Road, Manchester, M13 9WL	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	Ambient	<72 hours ambient unspun. Once spun samples stable for 2 months refrigerated	The serotypes available are 1, 3, 4, 5, 6b, 7F, 9V, 14, 18c, 19A, 19F and 23F which are in both the Pneumovax and Pevnar vaccines.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	20 days
Pneumocystis jirovecii investigation	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>BAL (or induced sputum only)</b> White Top Universal - Ref: UNI0003C	Refrigerated (+4°C)	2-8°C for 7 days; long term -70°C		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Poliovirus Total Antibody (Neutralisation test)	Accredited	Eurofins Biomnis France	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	N/A	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	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	• <b>Protect from light</b>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7-10 working days
Porphyrins (Plasma)	Accredited	Biochemistry Laboratory, St James's Hospital	<b>EDTA Plasma</b> <b>2x K3 EDTA - Ref: 368857</b> (4 mL) or <b>Heparin Plasma</b> <b>Lithium Heparin - Ref: 367883</b> (2 sample x 4ml) Protect from light.	Samples must be spun and <b>frozen</b> immediately.	<1 hour	• <b>Protect from light.</b> • 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5-7 working days
Porphyrins (Red Blood Cell)	Accredited	Biochemistry Laboratory, St James's Hospital	<b>EDTA Whole Blood</b> <b>2x K3 EDTA - Ref 368857</b> (3mL)	Refrigerated (+4°C) up to 24 hours. >24 hours sample must be <b>frozen</b> .	<24 hours refrigerated. >24hours if frozen	• 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. • <b>Form Required</b> - 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 -7 working days qualitative. If positive, further testing of 7-14 working days for quantitative results

### 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
Porphyriins (Urine)	Accredited	Biochemistry Laboratory, St James's Hospital	<b>Urine</b> 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"> <li>Refrigerate sample for upto 24 hours, but if greater delay is expected (over weekend), take aliquote and freeze.</li> <li><b>Form Required</b> - Contact MUH Specimen Reception.</li> <li>If an Acute Attack is suspected, please send a random urine sample immediately to the Porphyrin laboratory. During 9-5 Monday to Friday please contact the Porphyrin laboratory at 01-4162058 to inform staff of sample. Out of hours please contact the Biochemistry Department on-call staff member.</li> <li>Analysis of ALA is no longer available routinely. Urine PBG is the key marker for diagnosing acute porphyria attacks.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 - 10 days
Potassium (K)**	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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.	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Potassium (K), urine	Accredited	Biochemistry, Mayo University Hospital	<b>Urine</b> Urine Z tube (Urinalysis) Reference: 368501	Ambient	<96 hours at room temperature.	Must be received in lab within four hours post venepuncture.	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Prader Willi / Angleman Syndrome (15q11-13 Methylation), blood (FISH)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> K3 EDTA - Ref: 368857 (5 mL)	Refrigerated (+4°C)	<4 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001) &amp; Eurofins Combined Genetic Test Request, Information and Consent Form</a>	15 days
Prealbumin <i>Transthyretin</i>	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> SST gel - Ref: 367954 (1mL)	Refrigerated (+4°C)	<48 hours unspun. <5 days spun	• ALWAYS specify patients name and gender	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
ProBNP <i>NT-ProBNP</i> (External Users)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<24 hours unspun. Once spun samples stable for 5 days refrigerated.	External users	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	Priority: 1 working day. Routine: 2 working days
ProBNP <i>NT-ProBNP</i> (Internal Users)	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<24 hours unspun. Once spun samples stable for 5 days refrigerated.	Internal users only	<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Procollagen III	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen within 4 hours	Once frozen samples stable for 5 days	• Centrifuge, Decant, freeze rapidly	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 weeks (if dilution/control needed - TAT 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
Progesterone	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<72 hours unspun. Once spun samples stable for 7 days refrigerated.	N/A	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	Priority: 1 working day. Routine: 4 working days
Proinsulin	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen within 4 hours	Once frozen samples stable for 5 days	• Do not use 10ml tube	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Prolactin	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> SST gel - Ref: 367954 (7mL)	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 6 days.	N/A	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	Priority: 1 working day. Routine: 2 working days
Prostate-specific antigen (PSA) Free	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> SST gel - Ref: 367954 (1mL)	Sample must be spun and frozen within 4 hours	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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
Protein C	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 weeks
Protein S and free protein S	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 weeks
Prothrombin Gene Mutation analysis	Accredited	Haematology Dept, St James Hospital	<b>EDTA Whole Blood</b> 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).	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	8 weeks
Prothrombin Time (PT)/INR	Accredited	Haematology, Mayo University Hospital	<b>Citrated Plasma</b> Sodium Citrate - ref: 363095 (2.7mL) Sodium Citrate paed - ref: 41.1350.005 (1.3mL)	Room Temperature	24 hours		<a href="#">Haematology Department MUH Request Form - H/LF/002</a>	Routine: 2 hours Out-of hours: 1.5 hour
PSA (Total)	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 1 day Urgent: 1 day
Quantiferon TB Test	Accredited	Microbiology, Mater Misericordiae University Hospital	<b>Blood</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	<2 days urgent 3-4 days routine

### 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
Quantification of Feto-Maternal Haemorrhage (FMH)	Accredited	Coombe Women and Infant's University Hospital (CWIUH) Cork Street, Dublin 8	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 days
Red Cell Folate	Accredited	Haematology Department, University Hospital Galway	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref: 368857</b> (3mL) (1.0 mL Paediatric tubes are available).	<b>Refrigerated</b> (+4°C)	<8 hours	• Requests should be received in the laboratory within 8 hours of phlebotomy	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 weeks
Red cell polyagglutination	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Reducing Sugars <i>Reducing Substances</i>	Accredited	Alder Hey Children's Hospital, Liverpool via Eurofins	<b>Faeces</b> <b>Blue Top Stool Universal - Ref: UN10039B</b> (20g minimum)	Sample must be <b>frozen</b> within 4 hours	<4 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Renin (Direct)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>EDTA Plasma</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (4mL)	Sample must be spun and <b>frozen</b> 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 weeks
Reticulocyte Count	Accredited	Haematology, Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (3mL) or <b>EDTA Paediatric tube - Ref: 72001</b> (1.3mL)	4°C	48 hours		<a href="#">Haematology Department MUH Request Form - H/LF/002</a>	3 hours
Retinol Binding Protein (RBP)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	N/A	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
Reverse T3	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days	• Attach the thyroid evaluation results. • Attach the clinical data. • 1 individual aliquot for this analysis.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1 month
RHCE Variants Genotype	Not Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (≥3mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	21 days
RhD Blood Group, Anomaly Investigation (Serological) Cord/Neonate Only	Not Accredited	Red Cell Immunohaematology Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (6mL) Cord Blood Sample	Ambient	<48 hours ambient. <7 days refrigerated.	Cord Blood Sample	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1 day
RHD/RHCE Genotype	Not Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (≥3mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	14 days
Rheumatoid Factor IgM	Accredited	Immunology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated	• Requests for Rheumatoid Factor will also be tested for Anti-CCP	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 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
Rickettsioses (R. conorii, R. typhi)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	• Do not use 10ml serum tube	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 days
Ristocetin CoFactor (RiCof)	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	Samples must be spun and <b>frozen</b> immediately.	<3 hours	• Prior authorization by Consultant Haematologist or SPR. • Arrange with coagulation laboratory before taking specimen. • Must fill bottles to mark.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	4 weeks
Rubella IgG Antibody	Accredited	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 upspun. <4 days spun and refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
Rubella IgM Antibody	Accredited	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 upspun. <4 days spun and refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
Salicylate	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<24 hours at room temperature. Once spun and refrigerated sample is stable for 4 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Schistosomiasis - confirmation ( <i>Bilharzia</i> )	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL) Do not use 10mL tube	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 days
Schistosomiasis - screening ( <i>Bilharzia</i> )	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL) Do not use 10mL tube	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	If positive, the confirmation test is automatically performed.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	4 days
Schistosomiasis (Urine) ( <i>Schistosoma haematobium</i> )	Not Accredited	Medical Microbiology, Galway University Hospital	<b>Urine</b> <b>(On patients after recent travel to endemic area)</b> White Top Universal - Ref: UN10003C (Volume >10mL) The urine must be obtained between 10:00-14:00 on the day of testing.	<b>Refrigerated</b> (+4°C)	<2 hours. Once refrigerated samples stable for 4 days	• 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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1 day
Selenium	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml) <b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	<b>Refrigerated</b> (+4°C)	<48 hours. Once samples are spun and separated samples are stable for 14 days.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	12 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
Serotonin	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Whole Blood</b> <b>2x Lithium heparin (non-gel) - Ref: 367883</b> (2mL)	Sample must be spun and <b>frozen</b> within 1 hour	<1 hour. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> <li>Individual aliquot for this analysis.</li> <li>Sample to be frozen within 1 hour. Home sampling is not advisable.</li> <li>Diet: in the 48 hours preceding the sample, avoid foods or drinks rich in tryptophan (essential amino acid constituting serotonin): oily fish, poultry livers, brown rice, dairy products, bananas, chocolate / cocoa, dried fruits (nuts , almond, cashew nuts, dates), mango, avocado, tomato, plum, kiwi, pineapple, shellfish, beans and legumes, pumpkin seed</li> <li>Note that taking antidepressants such as IRRS (serotonin reuptake inhibitors) may decrease the basal level of serotonin.</li> </ul>	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	4 days
Serum Protein Electrophoresis	Accredited	Immunology, Galway University Hospital	<b>Serum SST gel - Ref: 367954</b> (5mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 10 days refrigerated		<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	10 days
Sex Hormone Binding Globulin (SHBG)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 hours unspun. Once spun samples stable for 8 days.	<b>Female – only analysed where testosterone &gt;1.2nmol/L.</b>	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	Priority:1 working day. Routine: 2 working days
Sex Hormone Binding Globulin (SHBG)	Accredited	Eurofins Biomnis Ireland	<b>Serum SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 8 days refrigerated	<b>ATTENTION:</b> 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.	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	3 days
Sickle Screen (Sickledex)	Accredited	Haematology, Mayo University Hospital	EDTA Whole Blood <b>2x K<sub>2</sub> EDTA - Ref 368857</b> (3mL)	10°C	45 days		<b>Haematology Department MUH Request Form - H/LF/002</b>	3 days
Sirolimus ( <i>Rapamune</i> )	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>EDTA Whole Blood K3 EDTA - Ref 368857</b> (5mL)	<b>Refrigerated</b> (+4°C)	<4 days	Residual level sample (just before administration) Enclose the specific clinical information form (R13-INTGB : Medication quantification)	<b>Pathology Referral Request form - Dark Blue form</b> (PATH/LF/001)	4 days
Sodium (Na)	Accredited	Biochemistry, Mayo University Hospital	<b>Serum SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Sodium (Na), urine	Accredited	Biochemistry, Mayo University Hospital	<b>Urine Urine Z tube (Urinalysis) Reference: 368501</b>	Ambient	<96 hours at room temperature.		<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Sodium Valproate ( <i>Epilim</i> )	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 hours unspun. Once spun, samples stable for 7 days	Take specimen immediately before next dose (trough specimen)	<b>Pathology Referral Request form - Dark Blue form</b> (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
Sputum - Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Sputum</b> 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.	<a href="#">Histopathology Department Request Form Mayo University Hospital (HP/LF/001)</a>	5 days
Squamous Cell Carcinoma (SCC) TA4 Antigen	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
Steroid Profile (urine)	Not Accredited	Central Specimen Reception, Synnovis, Friars Bridge Court, 41-43 Blackfriars Road, London, SE1 8NZ	<b>Urine</b> <b>24 hour Urine Container</b> <b>Ref: 77.575.401</b> <i>Laboratory: 20 mL 24hr Urine collection</i> <b>Spot urines in Paediatrics</b>	Sample must be <b>frozen</b> immediately	Once frozen samples stable for 5 days	When investigating suspected inborn errors of steroid metabolism in newborns, it is important to make a collection before instituting steroid or electrolyte replacement. The sample should preferably be collected more than 48h after birth.	<a href="#">Synnovis Referral Request form (PATH/EXT/417)</a>	3 weeks
Sulphonylurea	Accredited	Berkshire & Surrey Pathology Services via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days	Always indicate the clinical context	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	10 days
Sural Nerve Biopsies	Not Accredited	Histopathology Department, Galway University Hospital	<b>Fresh tissue</b>	Osmicated/ formalin fixed.	Send to lab immediately	• 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	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	Histological diagnosis
Surgical Tissue Specimens for Histological Examination	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Surgical Tissue</b> Formalin fixed tissue	Ambient	Surgical Tissue to be placed directly into containers with 10% NBF	Ensure the tissue is fully immersed in formalin.	<a href="#">Histopathology Department Request Form Mayo University Hospital (HP/LF/001)</a>	7 days
Synovial Fluid – Cytology	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Synovial Fluid</b> 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.	<a href="#">Histopathology Department Request Form Mayo University Hospital (HP/LF/001)</a>	5 days
Syphilis (Treponema pallidum) antibodies (TPHA/RPR)	Accredited	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 upspun. <4 days spun and refrigerated.	N/A	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2-3 days
T3 (Free)	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+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.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
T3 (Total)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated</b> (+4°C)	<48 hours unspun. Once spun samples stable for 5 days.	• Assay only available by request by prior agreement with GUH Chemical Pathologists	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	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
Tacrolimus <i>(Advagraf / Prograf)</i>	Accredited	Clinical Biochemistry, Galway University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (4mL)	Refrigerated (+4°C)	<7 days refrigerated whole blood	<ul style="list-style-type: none"> <li>Collect sample pre-dose.</li> <li>State date/time of sample collections clearly on request form</li> </ul>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
TCR gene Rearrangement	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref: 368857</b> (3ml) <b>Bone marrow</b> RPMI (3mL)	Refrigerated (+4°C)	<48 hours	<p>All CMD request must be accompanied with CMD request form or samples will be rejected. • Slides and Immunophenotyping / histology report required.</p> <ul style="list-style-type: none"> <li>All samples for molecular testing should arrive in the laboratory as soon as possible post collection or if appropriate, refrigerated at 4 °C until dispatched. Medium is available from Histopathology ext 2564.</li> </ul>	Pathology Referral Request form - Dark Blue form (PATH/LF/001) & St James Cancer Molecular Diagnostics Request Form ( H/EXT/ 183)	20 days
Testosterone	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL) Collected between 8-10am	Refrigerated (+4°C)	<48 hours unspun. Once spun samples stable for 7 days.	<ul style="list-style-type: none"> <li>Collect sample between 08:00-10:00am</li> </ul>	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	<b>Serum</b> <b>Serum non gel - Ref:367837</b> (5mL)	Samples must be <b>spun and separated</b> and <b>Refrigerated</b> (+4°C)	<24 hours	<ul style="list-style-type: none"> <li>As this assay measures a patient's ability to respond to specific bacterial antigens via a thymus-dependant response, all requests for Specific Response to Tetanus Toxoid (IgG) will also have a Pneumococcal Capsular Polysaccharide (PCP) (Total IgG and IgG2) assay performed.</li> <li>Where External Institutions cannot guarantee immediate delivery, samples must be centrifuged, separated and stored at 4°C.</li> <li>Samples can then be transported, as soon as possible, to St. James's Hospital for processing.</li> </ul>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	21 days
Thallium (Plasma)	Not Accredited	Trace Laboratories, UK via Eurofins	<b>EDTA Plasma</b> <b>K3 EDTA - Ref 368857</b> (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, UK via Eurofins	<b>Urine</b> White Top Universal - Ref: UNI0003C (5mL)	Refrigerated (+4°C)	Samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>T9 : Urine flasks 70 ml to be used</li> </ul>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	3 weeks
Theophylline <i>Aminophylline</i>	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	Refrigerated (+4°C)	<48 hours. Once samples are spun and separated samples are stable for 7 days.	<ul style="list-style-type: none"> <li>Take specimen immediately before next dose (trough specimen)</li> </ul>	Pathology Referral Request form - Dark Blue form (PATH/LF/001)	1 week
Thiocyanate <i>(Cyanide)</i>	Not Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	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	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Refrigerated (+4°C)	<4 days	<ul style="list-style-type: none"> <li>Collect samples from Monday to Wednesday</li> <li>To be referred on the day of sample collection. <b>Contact MUH Specimen Reception in advance of sampling.</b></li> <li>Do not collect prior to bank holidays or weekends</li> </ul>	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
Thiopurine methyl transferase (TPMT) Genotyping	Accredited	Birmingham City Hospital via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (5mL)	Refrigerated (+4°C)	<4 days	<ul style="list-style-type: none"> <li>Collect samples from Monday to Wednesday</li> <li>To be referred on the day of sample collection. <b>Contact MUH Specimen Reception in advance of sampling.</b></li> <li>Do not collect prior to bank holidays or weekends</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	8 weeks
Thrombophilia Screen (Including Protein C, Protein S, Antithrombin III, APCR and Lupus)	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>4x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be frozen immediately	<3 hours. Once frozen samples stable for 3 days	<p>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.</p> <p>Sample preparation</p> <ol style="list-style-type: none"> <li>1) Check sample volume.</li> <li>2) Check for clots and haemolysis.</li> <li>3) Attach "sample checked for clots" label to request form.</li> <li>4) Centrifuge at 2500g for 5 min.</li> <li>5) Remove plasma from all of the samples and pool into one plastic tube which is labelled with patients name and PID</li> <li>6) Centrifuge the pooled plasma at 2500g for 5 min.</li> <li>7) Remove plasma into 4 tubes labelled with Patients Name, PID and date.</li> <li>8) Store in Haematology Freezer until transfer to Galway University Hospital.</li> </ol>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	5 weeks
Thyroglobulin (TG)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Refrigerated (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>ATTENTION: interference possible in patients treated with biotin (vitamin B7, B8 or H) or taking any food supplement containing biotin. Essential to STOP treatment 8 days before taking the sample</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
Tobramycin	Not Accredited	Galway Clinic, Galway	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Samples must be spun and separated within 2 hours of collection. <b>Refrigerated (+4°C)</b>	<2 hours unspun. Once spun and refrigerated, stable for 3 days.	<p>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.</p> <p>If testing will be delayed &gt; 2 hours the analyte must be stored and transported at 2-8°C for maximum 7 days or at &lt; - 10°C for maximum 14 days.</p>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	1 day
TORCH screen antibodies <i>(Screen includes: toxoplasmosis, rubella, cytomegalovirus, herpes simplex, and HIV)</i>	Accredited	Virology, Galway University Hospital	Refer to individual tests for test requ	Refrigerated (+4°C)	Refer to individual tests		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	N/A
Total Iron Binding Capacity / TIBC	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Total Protein	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 3 hours Urgent: 1.5 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
Total Protein, urine	Accredited	Biochemistry, Mayo University Hospital	<b>Urine</b> <b>Urine Z tube (Urinalysis)</b> Reference: 368501	Ambient	<48 hours at room temperature.		<b>Biochemistry</b> <b>Department MUH</b> <b>Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Toxicology / Drug Screen (Serum): (Screen includes: Alcohol, Amphetamine/Ecstasy, Cocaine, Metabolite, Methadone, Opiates, Benzodiazepine & Cannabinoids)	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (5ml)	Sample must be spun and frozen immediately	Once frozen samples stable for 5 days		<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	4 days
Toxicology / Drug Screen (Urine): (Screen includes: TCA, Cannabinoids, Amphetamines/Methamp, Benzodiazepine, Cocaine Metabolite, Opiates, Alcohol, Urinary Creatinine, EDDP, 6-MAM & Urinary pH	Accredited	Eurofins Biomnis Ireland	<b>Urine</b> <b>White Top Universal - Ref: UNI0003C</b> (10mL)	<b>Refrigerated</b> (+4°C)	< 5 days refrigerated.		<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	2 days
Toxocariasis	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	If positive, the confirmation test is automatically performed.	<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	3 days
Toxoplasmosis - IgG/IgM	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>• ALWAYS specify the type: screening, screening check, follow-up, follow-up check, pregnancy screening, pregnancy screening check, pregnancy follow-up, pregnancy follow-up check or newborn.</li> <li>• In case of doubtful serology result, a confirmation test by westernblot is automatically performed, test code WBTXG</li> </ul>	<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	3 days
TP53 Gene Analysis	Accredited	Cancer Molecular Diagnostics Laboratory, St James Hospital	<b>EDTA Whole Blood</b> <b>3x K<sub>3</sub> EDTA - Ref 368857</b> (5mL)	<b>Refrigerated</b> (+4°C)	<24 hours	All CMD request must be accompanied with CMD request form or samples will be rejected. Sample must be taken before 11.30am only on Mon, Tues, Wed or Thurs. Sample must reach Ref Lab within 24 hours.	<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001) &amp; St James Cancer Molecular Diagnostics Request Form (LH/FY/189)</b>	6 weeks
Transferrin	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<b>Biochemistry</b> <b>Department MUH</b> <b>Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 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.		<b>Pathology Referral</b> <b>Request form - Dark Blue form (PATH/LF/001)</b>	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
<b>Transfusion Reaction Investigation</b> (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	<b>EDTA Whole Blood</b> 2x K <sub>2</sub> EDTA (cross match) (6mL) <b>Serum</b> <b>EDTA Whole Blood</b> K3 EDTA - Ref 368857 (3mL) <b>Citrated Plasma</b> <b>Sodium Citrate - ref: 363095</b> (3mL) <b>Serum</b> 2x SST gel - Ref: 367954 (6mL) <b>Urine</b> White Top Universal- Ref: UNI0003C (10mL) <b>Blood Cultures, Donor units transfused</b>	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	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Troponin I	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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: 1.5 hour
Trypsase (Mast Cell) (Anaphylactic Shock: Post reaction work-up)	Accredited	Immunology, Galway University Hospital	<b>Serum</b> 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	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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: 2-4 days Routine: 1 day Urgent: 1 day
TSH Receptor Antibodies (Anti-TSH receptor antibodies (TRAb))	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> 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' disease or autoimmune thyroiditis or during follow-up of patients with Graves' 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	<b>Serum</b> SST gel - Ref: 367954 (5mL) <b>Heparin Plasma</b> 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: 2-4 days Routine: 3 hours Urgent: 1.5 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
Urea, urine	Accredited	Biochemistry, Mayo University Hospital	<b>Urine</b> <b>Urine Z tube (Urinalysis)</b> Reference: 368501	Ambient	<48 hours at room temperature. Once refrigerated sample is stable for 4 days		<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Uric Acid	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<48 hours unspun at room temperature. Once spun and refrigerated sample is stable for 4 days		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	2-4 days
Uric Acid (Urine)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Urine</b> <b>24 hour Urine Container Ref: 77.575.401 (plain bottle)</b> <b>Alkalinised</b>	<b>Refrigerated (+4°C)</b>	< 4 days refrigerated	<ul style="list-style-type: none"> <li>Specify diuresis</li> <li>Urine alkalinised with sodium hydroxide to pH &gt; 8 in GUH Laboratory. Tube for urine sample (4mL)-T28. Dip stick test to be performed onsite at GUH</li> </ul>	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	2 days
Urine – Cytology for Malignant Cells	Not Accredited	Histopathology Department, Mayo University Hospital	<b>Urine</b> 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.	<b>Histopathology Department Request Form Mayo University Hospital (HP/LF/001)</b>	5 days
Urines for Legionella and Pneumococcal antigen testing.	Not Accredited	Microbiology, Mayo University Hospital	<b>Urine</b> <b>BD Vacutainer Z (no additive) plus urine tube (REF: 368501)</b>	24 hours at room temp. Then store at 2-8° for up to 14 days.	24 hours at room temp		<b>Microbiology Department MUH Request form - M/LF/001</b>	24 hours
Ustekinumab	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days	Always draw blood at the same time before another administration	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	25 days
Valproic Acid ( <i>Depakine®</i> )	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated (+4°C)</b>	<48 hours refrigerated unspun. Once spun samples stable for 7 days refrigerated	<ul style="list-style-type: none"> <li>Always draw blood at the same time before another administration</li> <li><b>Form Required</b> Enclose the specific clinical information form (R13-INTGB : Medication quantification). <b>Available from MUH Specimen Reception.</b></li> </ul>	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	2 days
Vancomycin	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<4 hours at room temperature. Once spun and refrigerated sample is stable for <1 day	Please indicate if peak or trough levels on request form	<b>Biochemistry Department MUH Request Form - B/LF/001</b>	External: 2-4 days Routine: 3 hours Urgent: 1.5 hour
Varicella-zoster Virus IgG antibodies	Accredited	Virology, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL)	<b>Refrigerated (+4°C)</b>	<48 upspun. <4 days spun and refrigerated.	<ul style="list-style-type: none"> <li>Samples from pregnant patients who have been in contact with chickenpox are processed urgently if received before 2pm Monday to Friday.</li> <li>The request must be marked as Urgent with clinical details, and the requesting clinician's contact number, clearly stated.</li> <li>The laboratory should be contacted (Ext 4398) to alert staff that the sample is in transit.</li> <li>Indeterminate results are referred to the NVRL for confirmation.</li> </ul>	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	5 days
Varicella-zoster Virus PCR	Accredited	National Virus Reference Laboratory (NVRL), UCD, Dublin	<b>Serum</b> <b>SST gel - Ref: 367954</b> (7mL) or <b>CSF</b> White Top Universal - Ref: UNI0003C	<b>Refrigerated (+4°C)</b>	2-8°C for 7 days; long term -20°C		<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	3 days
Vascular Endothelial Growth Factor ( <i>Cytokine</i> )	Not Accredited	Institute of Neurology London via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days	Do not use 10ml tube	<b>Pathology Referral Request form - Dark Blue form (PATH/LF/001)</b>	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	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL)	Sample must be spun and <b>frozen</b> within 4 hours	Once frozen samples stable for 5 days		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	25 days
Vitamin A (Retinol)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>Lithium heparin (non-gel) - Ref: 367883</b> (2mL)	Sample must be spun and <b>frozen</b> within 1.5 hour	<1.5 hours. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> <li>Sample to be frozen within 90 minutes.</li> <li>Home sampling is not advisable.</li> <li>Store samples protected from light but do not pack the tube.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	4 days
Vitamin B1 (Thiamine)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (2mL) <b>Do not spin</b>	Sample must be <b>frozen</b> within 4 hours. <b>Do not spin</b> , freeze whole blood	Once frozen samples stable for 5 days	<ul style="list-style-type: none"> <li>Store samples protected from light but do not pack the tube.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	6 days
Vitamin B12	Accredited	Biochemistry, Mayo University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (5mL) <b>Heparin Plasma</b> <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml)	Ambient	<72 hours unspun at room temperature. Once spun and refrigerated sample is stable for 5 days		<a href="#">Biochemistry Department MUH Request Form - B/LF/001</a>	External: 2-4 days Routine: 1 day Urgent: 1 day
Vitamin B2 (Riboflavin)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (2mL) <b>Do not spin</b>	Sample must be <b>frozen</b> within 4 hours. <b>Do not spin</b> , freeze whole blood	<4 hours unspun - protected from light. Once frozen stable for 5 days.	Store samples protected from light but do not pack the tube.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 weeks
Vitamin B6 (Pyridoxal phosphate)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Whole Blood</b> <b>K3 EDTA - Ref 368857</b> (2mL) <b>Do not spin</b>	Sample must be <b>frozen</b> within 4 hours. <b>Do not spin</b> , freeze whole blood	<4 hours unspun - protected from light. Once frozen stable for 5 days.	<ul style="list-style-type: none"> <li>1 individual aliquot for this analysis.</li> <li>Store samples protected from light but do not pack the tube.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	6 days
Vitamin C (Ascorbic Acid)	Accredited	Labor Volkman, Germany via Eurofins	<b>Heparin Plasma</b> <b>Lithium heparin (non-gel) - Ref: 367883</b> (2mL)	Sample must be spun and <b>frozen</b> immediately	<20 mins. Once frozen samples stable for 2 days	<ul style="list-style-type: none"> <li>1 individual aliquot for this analysis.</li> <li>Centrifuge and freeze within 20 minutes</li> <li>Store samples protected from light but do not pack the tube.</li> <li>Sample to be withdrawn in your lab on Monday, Tuesday or Wednesday exclusively and to be sent to Eurofins on the day of blood withdrawal; SHELF LIFE OF FROZEN LITHIUM HEPARIN PLASMA: 48 HOURS BEFORE TECHNICAL USE.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	7 days
Vitamin D (1,25-OH-Vitamin D)	Accredited	Eurofins Biomnis Paris, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (3mL)	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 12 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	3 days
Vitamin D (25 Hydroxy Vitamine D3 / Hydroxycholecalciferol)	Accredited	Clinical Biochemistry, Galway University Hospital	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 4 days refrigerated	All in house samples sent to GUH. Demand Management is in place for all Vitamin D requests. Please refer to below communication regarding requirements	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	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)	Accredited	Eurofins Biomnis Ireland	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<24 hours refrigerated unspun. Once spun samples stable for 12 days refrigerated	All GP samples sent to Biomnis. Demand Management is in place for all Vitamin D requests. Please refer to below communication regarding requirements.	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 days
Vitamin E (Tocopherol)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>Lithium heparin (non-gel)</b> <b>- Ref: 367883</b> (2mL)	Sample must be spun and <b>frozen</b> within 1.5 hours	<1.5 hours. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> <li>Sample to be frozen within 90 minutes .</li> <li>Home sampling is not advisable.</li> <li>Store samples protected from light but do not pack the tube.</li> <li>If requested with vitamin A, 1 specific aliquot for both assays</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	4 days
Vitamin K1 (Phylloquinone)	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Sample must be spun and <b>frozen</b> within 1.5 hours	<1.5 hours. Once frozen samples stable for 5 days	<ul style="list-style-type: none"> <li>Sample to be frozen within 90 minutes .</li> <li>Home sampling is not advisable.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 weeks
Von Willebrands Factor Antigen (vWF:Ag)	Accredited	Haematology Department, University Hospital Galway	<b>Citrated Plasma</b> <b>2x Sodium Citrate - ref: 363095</b> (2.7ml)	Sample must be <b>frozen</b> immediately	Once frozen samples stable for 3 days	Samples are prepared as per Factor Assay	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	4 weeks
Weak D Genotype	Accredited	Blood Group Genetics Laboratory, IBTS, St James's Street, Dublin	<b>EDTA Whole Blood</b> <b>K<sub>2</sub>EDTA (cross match)</b> (≥3mL)	Ambient	<48 hours ambient. <7 days refrigerated.		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	14 days
White Blood Cell Differential Cell Count	Accredited	Haematology. Mayo University Hospital	<b>EDTA Whole Blood</b> <b>K<sub>3</sub> EDTA - Ref 368857</b> (3mL) or <b>EDTA Paediatric tube - Ref: 72001</b> (1.3mL)	4°C	24 hours		<a href="#">Haematology Department MUH Request Form - H/LF/002</a>	Routine: 2 hours Out-of hours: 1 hour
Xanthochromia	Accredited	Central Specimen Reception, Synnovis, Friars Bridge Court, 41-43 Blackfriars Road, London, SE1 8NZ	<b>CSF</b> Xanthochromia Tube - Ref:60.611.011 <b>Sample must be collected and received in darkened container</b>	Sample must be spun within 1 hour of collection	<1 hour	<ul style="list-style-type: none"> <li>Sample container available from Microbiology MUH.</li> <li>Sample must be collected and received in darkened container.</li> <li>The sample should be centrifuged at &gt; 2000 rpm for 5 mins as soon as possible after receipt and in any case within 1h of collection, aliquoted off and protected from light. It can then be sent at room temperature. A minimum of 250 µL is needed."</li> </ul>	<a href="#">Synnovis Referral Request form (PATH/EXT/417)</a>	1 day
Yellow fever - Immunity test	Not Accredited	Laboratoire Cerba, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (2mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>This test is designed to measure anti viral immunity</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	15 days
Yersinia Antibodies (Anti-YOP)	Accredited	Labor Volkman via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated		<a href="#">Pathology Referral Request form - Dark Blue form (PATH/LF/001)</a>	2 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
Zika - Serology	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>• <b>Form Required.</b> Enclose the specific clinical information form (R28-INTGB : Dengue-Chikungunya-West Nile-Zika). Available from MUH Specimen Reception.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	1 week
Zika Virus - PCR	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>EDTA Plasma</b> <b>K3EDTA - Ref: 368857</b> (2 mL) <b>Serum</b> <b>SST Gel - Ref: 367954</b> (2mL) <b>Urine</b> Universal Container - Ref: UNI0003C (2mL) <b>Saliva</b> Universal Container - Ref: UNI0003C (2mL) <b>Sperm</b> Universal Container - Ref: UNI0003C (2mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>• <b>Form Required.</b> Enclose the specific clinical information form (R28-INTGB : Dengue-Chikungunya-West Nile-Zika). Available from MUH Specimen Reception.</li> <li>• The use of the S14UK transport bag is Mandatory.S14: Special mycobacteria transport bags are to be used.</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	3 days
Zinc	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Heparin Plasma</b> <b>Sodium Heparin - Ref 3678676</b> (3mL) or <b>Lithium heparin (non-gel) - Ref: 367883</b> (5mL) <b>Paediatric Lithium Heparin Ref: 41.1393.005</b> (1.3ml) <b>Serum</b> <b>Serum non gel - Ref: 367837</b> (2ml)	Samples must be <b>spun</b> and <b>separated</b> and <b>Refrigerated</b> (+4°C)	<1 hour unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>• Do not use tubes with separator gel</li> <li>• Centrifuge the sample and decant rapidly</li> <li>• Not to be performed on haemolysed sample</li> <li>• Spin down and immediately decant plasma from cells.</li> <li>• Immediately decant the plasma(maximum 1 hour).</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	8 days
ZNT8 Antibodies	Accredited	Eurofins Biomnis Lyon, France via Eurofins	<b>Serum</b> <b>SST gel - Ref: 367954</b> (1mL)	<b>Refrigerated</b> (+4°C)	<48 hours refrigerated unspun. Once spun samples stable for 5 days refrigerated	<ul style="list-style-type: none"> <li>• Do not use 10 mL tube</li> </ul>	<a href="#">Pathology Referral Request form - Dark Blue form</a> (PATH/LF/001)	14 days