






BON SECOURS HOSPITAL PATHOLOGY DEPARTMENT			
Number	Version	Date of Issue	Authorised By
BSD/PATH/I/111	6	18/11/2025	Lyndsey O'Neill






## TABLE OF ALL TEST

Associated Document: BSD/PATH/GDE/001


Tests and profiles	Specimen type/ site				Special requirements	Turnaround time	Laboratory
		Additive	Volume (mL)	Container			
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11 Deoxycortisol*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
17 Hydroxy Pregnelone*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
17 Hydroxy Progesterone*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
21 Hydroxylase antibodies*	Serum	None 	4.5	Blood Tube	Send to lab immediately, for freezing, during routine hours.	21 working days	Blood Sciences
25 Hydroxy Vit D3, Calciferol*	Serum	None 	4.9	Blood Tube	Send to lab immediately, for freezing, during routine hours.	15 working days	Clinical Chemistry

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5-HIAA* 5-Hydroxy-indoleacetic Acid	24 Hour Urine Collection	20 mL 2M HCL	100	2L Urine container	Acidified container, contact Phlebotomy.	15 working days	Clinical Chemistry
Issue of un-crossmatched blood	Blood	Potassium EDTA 	4.9	Blood Tube	Urgent request contact Blood Transfusion Laboratory Emergency units not suitable for patients with Anti-c or Anti-e antibodies. Antigen negative blood should be issued for patients with previous antibodies detected. Retrospective compatibility testing is performed.	Immediate-Emergency units in blood issue fridge) ♦ Further units- 15 minutes ♦	Blood Transfusion
ACE * (Angiotensin converting Enzyme)	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Acetylcholine Receptor Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences




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ACHAB*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Acid Fast Bacilli AFB (AFB Culture) *	Sputum Pus Pleural fluid Synovial fluid Other fluids	None	5-10 As available As available As available As available	Sterile universal container Conical Base	Refer to BSD/PATH/GDE/001	ZN stain: 12-14working days TB Culture: 10-12 weeks	Microbiology
Acid Fast Bacilli AFB (AFB Culture) *	Bone Marrow	None	As available	Special bone marrow/ blood culture bottle	Bottle available from Microbiology Laboratory on request	ZN stain: 12-14 working days TB Culture: 10-12 weeks	Microbiology
Acid Fast Bacilli AFB (AFB Culture) *	Urine (EMU)	None	25	Sterile universal container Conical Base	3 early morning specimens on successive days	ZN stain: 12-14 working days TB Culture: 10-12 weeks	Microbiology
Acid Fast Bacilli AFB (AFB Culture) *	Tissue	None	As available	Sterile universal container	Do not use Formalin	ZN stain: 12-14 working days	Microbiology




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				Conical Base		TB Culture: 10-12 weeks	
Acid Fast Bacilli AFB (AFB Culture) *	Broncho alveolar lavage (BAL)	None	As available	Sterile universal container	None	ZN stain: 12-14 working days TB Culture: 10-12 weeks	Microbiology
ACTH*† (Adrenocorticotrophic Hormone)	Plasma	Potassium EDTA + aprotinin 	5	Blood Tube	Centrifuge & freeze immediately after specimen collection	15 working days	Clinical Chemistry
Activated Partial Thromboplastin Time (APTT) Activated Partial Thromboplastin Time Ratio (APTTR)	Blood	Sodium Citrate 	3	Blood Tube	Testing must be done within 4 hours of sample collection APTTR <u>only</u> for monitoring Heparin	♦ Routine 4 Hours Urgent 70 mins	Haematology
Adenosine Deaminase*	Serum, Pleural or Ascitic Fluid, CSF	None 	4.5	Blood Tube	Do not use haemolysed specimens	21 working days	Blood Sciences
Adenovirus PCR*	Nasal swab/throat swab	None		Red Cap Viral Swab	Contact Consultant Microbiologist	15 working days	Microbiology






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Adrenal Antibodies*	Blood	None 	4.5	Blood Tube	None	30 working days	Blood Sciences
Albumin (Fluid)†	Fluid (pleural etc.)	None	2	Sterile Universal Container	Method not validated	Routine 4 hours	Clinical Chemistry
Albumin20% (Issue of)	None	None	None	None	Request on Blood Transfusion Request Form. Type & Screen sample not required. Must be signed by requesting Medical Officer.	10 minutes	Blood Transfusion
Albumin	Blood	None 	4.9	Blood Tube	None	Urgent < 1hours Routine 3 hours ♦	Clinical Chemistry
Alcohol (plasma)*	Plasma	Fluoride 	2.7	Blood Tube	Do not open sample	1 day	Clinical Chemistry
Aldolase*	Blood	None	4.9	Blood Tube	None (Not haemolysed)	15 working days	Clinical Chemistry

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Aldosterone*†	Blood	None 	4.9	Blood Tube	Patient must be lying down overnight. 1. Draw recumbent sample at 9.00am with patient remaining supine. 2. Then draw a second sample after a period of remaining upright (4hrs ideally)	15 working days	Clinical Chemistry
Alkaline Phosphatase	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Alkaline Phosphatase (Placental) *	Blood	None 	7.5	Blood Tube (minimum 5ml serum)	Send immediately to Laboratory.	15 working days	Clinical Chemistry
Alkaline Phosphatase isoenzymes*	Blood	None 	4.9 x 2	Blood Tube	None	15 working days	Clinical Chemistry


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Allergens* – Food: 1. Almond (f20) 2. Brazil Nut (f18) 3. Cashew Nut (f202) 4. Egg white (f1) 5. Egg yolk (f75) 6. Fish (cod) (f3) 7. Hazel nut (f17) 8. Kiwi (f84) 9. Milk (f2) 10. Peanut (f13) 11. Pistachio (f203) 12. Sesame (f10) 13. Shrimp (f24) 14. Walnut (f256) 15. Wheat (f4)	Blood	None 	4.5	Blood Tube	Up to 5 Allergens may be requested per form.  Use BSC Allergy Request Form, available from laboratory.	21 working days	Blood Sciences
Allergens* – Occupational 16. Alternaria mould (m6) 17. Aspergillus mould (m3) 18. Cat epithelium and dander (e1) 19. Cladosporium mould (m2)	Blood	None 	4.5	Blood Tube	Up to 5 Allergens may be requested per form.  Use BSC Allergy Request Form,	21 working days	Blood Sciences

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20. Common silver birch (t3) 21. Dog dander (e5) 22. English plantain (w9) 23. Horse dander (e3) 24. House dust mite (d1) 25. Meadow Fescue (g4) 26. Penicillium mould (m1) 27. Rabbit epithelium (e82) 28. Rye Grass (g5) 29. Timothy grass (g6)					available from laboratory.		
Allergens* – Occupational 30. Chlorhexidine (c8) 31. Latex	Blood	None 	4.5	Blood Tube	Up to 5 Allergens may be requested per form.  Use BSC Allergy Request Form, available from laboratory.	21 working days	Blood Sciences
Allergens* - Drug: 32. Penicillin V (c1) and G (c2) 33. Aspirin 34. Diclofenac	Blood	None 	4.5	Blood Tube	Up to 5 Allergens may be requested per form.	21 working days	Blood Sciences



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					Use BSC Allergy Request Form, available from laboratory.		
Allergy Total IgE *	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Alpha 1 antitrypsin levels*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Alpha 1 Antitrypsin Clearance*	Serum and Stool sample	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Alpha 1 antitrypsin phenotype*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Alpha 3 Subunit of AChR*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Alpha Subunit*	Blood	None 	4.9	Blood Tube	Send to lab for immediate freezing	21 working days	Clinical Chemistry
Alpha Gliadin Antibodies*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Alpha Fetoprotein (AFP)	Blood	None	4.9	Blood Tube	None	2 working days	Clinical Chemistry




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ALT (Alanine Amino Transferase )	Blood	None 	4.5	Blood Tube	None	Urgent < 1hours Routine 3 hours ♦	Clinical Chemistry
Aluminium *	Blood	None 	6	Blood Tube	Follow Trace Metal Information Leaflet	15 working days	Clinical Chemistry
Amiodarone*	Blood	None 	4.9	Blood Tube	None	21 working days	Clinical Chemistry
Amino Acid* (Blood)	Blood	None 	4.9	Blood Tube	Send to lab immediately.	15 working days	Clinical Chemistry
Amino Acids* (urine)	Urine	None	10	Sterile Universal Container	None	21 working days	Clinical Chemistry
Ammonia*	Blood	Lithium Heparin 	4.9	Blood Tube	Contact lab prior to collection. Li hep sample from patient, Li hep sample from another patient in same ward (used as an internal control). Avoid air	15 Working days	Clinical Chemistry

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					contamination. No need to label control sample, give "eye level" label for reference only. Control patient results not reported. Send to lab immediately.		
Amoebiasis Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Amylase	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Amylase (Fluid)	Fluid (pleural etc.)	None	2	Sterile Universal Container	None	Routine 3 hours	Clinical Chemistry
Amylase (urine)*	Urine	None	5	Sterile Universal Container	None	21 working days	Clinical Chemistry
Amyloid A*	Blood	None 	4.5	Blood Tube	Send to lab immediately, for	21 working days	Blood Sciences

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					freezing, during routine hours		
Androstenedione*	Blood	None 	4.9	Blood Tube	None	21 working days	Clinical Chemistry
Androgen Screen * (Testosterone – DHEA – SHBG – 17-OH Progesterone)	Blood	None 	4.9	Blood Tube	None	21 working days	Clinical Chemistry
Angiotensin II*	Blood	Potassium EDTA 	5.4	Blood Tube	Send to x 2 samples to lab immediately during routine hours; <b>use pre-cooled tube.</b>	21 working days	Clinical Chemistry
Anti-aquaporin 4 antibody*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-arthritis antibodies* Includes: RAC, CCPC	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-Centromere Antibodies (part of ENAP identification) *	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-cyclic citrullinated peptide Ab (Rh run as part of screen) *	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences







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Includes: RAC, CCPC							
Anti-DNA Abs* Includes: DNAC + LIVAB	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti -Endomysial Abs (if TTG positive) *	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-D Immunoglobulin	None	None	None	None	Request on Blood Transfusion Request Form. Type & Screen sample not required. Request must be authorised by Consultant Haematologist.	10 minutes	Blood Transfusion
Anti-Diuretic Hormone*	Blood	Potassium EDTA 	2.7	Blood Tube	None	21 working days	Clinical Chemistry
Anti-GAD* (glutamic acid decarboxylase)	Blood	None 	9	Blood Tube	None	21 working days	Blood Sciences
Anti-Glomerular Basement Membrane*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences

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Anti-GM-1* Antibodies (Antiganglioside)+A190	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-Histone Abs *	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti IGE receptor antibody*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-Liver Autoantibody screen* Includes: ANA, SMA, AMA, LKM, PCAB,ANF If ANA pattern speckled ENA performed; Part of liver auto antibody screen	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-myeloperoxidase*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-neuronal antibody screen*: • Anti Hu • Anti Yo	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences

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• Anti Ri Antibodies							
Anti-Neutrophil Cytoplasmic Antibodies (ANCA)*	Blood	None 	4.5	Blood Tube	None	5 working days for routine unless urgent	Blood Sciences
Anti -Ovarian Abs.*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-Mullerian Hormone*	Blood	None 	4.9	Blood Tube	None	21 working days	Clinical Chemistry
Anti-Myelin Associated Glycoprotein Antibodies (MAG)*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-Pituitary Abs*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti -Parietal Cell Abs.*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-Phospholipid Screen* (see anticardiolipin)	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences

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Anti-pemphigus antibodies*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti-Platelet Antibody*	Blood	Potassium EDTA  None 	15ml EDTA and 5ml serum. (If platelets <20, 40 ml of EDTA required)	Blood Tube	Ambient temperature. Samples to be collected Mon-Wed. Consent forms required phone 5634 for advice.	21 working days	Haematology
Anti SLA -soluble liver antigen abs*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
AQP4-aquaporin 4 antibodies*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Anti Streptolysin – O Titre (ASOT) *	Blood	None 	4.5	Blood Tube	Useful for the investigation of Group A Beta-haemolytic	3/4 working days	Microbiology





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					Streptococcal infection or post-streptococcal disorder e.g. rheumatic fever. Normal Findings: Titre of 0 - 200 I.U. units per ml.		
Antibiotic assay*  Gentamicin* Vancomycin *	Blood	Lithium Heparin 	4.5	Blood Tube	Refer to Antibiotic Policy on Hospital Q Pulse (Therapeutic Monitoring)	1 working day ♦  Results are phoned to the ward	Microbiology
Amikacin* Teicoplanin * Tobramycin * Voriconazole *		None 	4.5				



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Arbovirus IgM (Japanese encephalitis, West Nile encephalitis) *	Blood	None 	4.5	Blood Tube	None Test done by special arrangement	15 working days	Microbiology
Arbovirus PCR (Japanese encephalitis, West Nile encephalitis) *	CSF	None	400µl	Sterile Universal Container	None Test done by special arrangement	15 working days	Microbiology
	Blood	None	4.5				
Arsenic*	Urine	None	2x10	Sterile Universal Container	None	15 Working Days	Clinical Chemistry
Aspergillus Antibodies* (including precipitins)	Blood	None 	4.5	Blood Tube	Aspergillus <u>antibody</u> titres may be useful in the investigation of allergic broncho-pulmonary aspergillosis.	15 working days	Microbiology

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					Aspergillus <u>antigen</u> detection may be useful in invasive aspergillosis.		
Aspergillus Antigen* (galactomannan)	Blood	None 	4.5	Blood Tube	Aspergillus <u>antigen</u> detection may be useful in invasive aspergillosis. Aspergillus <u>antibody</u> titres may be useful in the investigation of allergic broncho-pulmonary aspergillosis.	7 working days	Microbiology
Aspergillus PCR*	Blood, fluid, tissue	None	4.5	Blood tube	None	15 working days	Microbiology
AST (Aspartate Amino Transferase)	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry

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Autoantibody Screen * (liver autoantibody includes: ANA, anti-mitochondrial, anti-smooth muscle, anti-parietal cell, anti LKM)	Blood	None 	4.5	Blood Tube	None	10 working days	Blood Sciences
Avian Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
B2 glycoprotein*	Blood	None 	4.9	Blood Tube	Send to lab immediately for refrigeration during routine hours.	10 working days	Clinical Chemistry
B2 Transferrin *	Blood & Fluid	None 	4.9	Blood Tube	Send to lab immediately for freezing during routine hours. Include clinical details.	10 working days	Clinical Chemistry
B-D Glucan*	Blood	None	4.5	Blood Tube	May be useful in the detection of invasive fungal infection	15 working days	Microbiology
BK virus PCR*	Blood	None	4.5	Blood Tube	Transport to lab immediately		


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*: These specimens/ samples are referred to external laboratories for testing. ♦: Tests provided in the emergency out-of- hours service							
†: These tests require special patient preparation or conditions. For further clarification, please contact the laboratory before sample collection.							
Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
<i>Bartonella henselae/quintana</i> Ab (Cat scratch Fever) *	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Beta 2 Microglobulin*	Blood	None 	4.9	Blood Tube	Send to lab immediately for freezing during routine hours	21 working days	Clinical Chemistry
β hydroxybutyrate*	Blood	Plasma LIT.HEP	4.9	Blood Tube	Glucose taken at same time; send to lab for immediate processing.	21 working days	Clinical Chemistry
β Galactosidase *	Blood	EDTA	2x4.9	Blood Tube	Only send Monday – Wednesday morning	21 working days	Clinical Chemistry
Bilirubin Direct*	Blood	None 	4.9	Blood Tube	Light protect	5 working days	Clinical Chemistry
Bilirubin Total	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry


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Blood Cultures	Blood	None	7-10mls added to each bottle 10 mL recommended	BacT Alert Bottles aerobic (blue) and anaerobic (purple)	Refer to BSD/PATH/GDE/001	Positive Result is phoned to requesting team by Consultant Microbiologist. Negative Result: Preliminary: 48 hours Final: 6 working days (11 days if endocarditis is suspected) ♦	Microbiology
Blood Film Analysis	Blood	Potassium EDTA 	2.7	Blood Tube	TFILM carried out by Lab personnel  CFILM carried out by Consultant	Routine:1 working day Urgent :4 hrs	Haematology




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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
						Routine: 5 days Urgent: 24 hours	
Blood Gases - Arterial	Blood	Heparinised Syringe	1	Blood Gas Syringe	Transport immediately to Laboratory, must be assayed within 30 minutes. Refer to BSD/PATH/GDE/001	Urgent < 1 hour ♦	Clinical Chemistry
Body Fluid (Various, e.g. Pleural, Joint, Ascitic etc.)	Fluid	None	N/A	Universal	None	80% by day 10	Cytopathology
Bone biomarkers profile*: <ul style="list-style-type: none"><li>• Osteocalcin</li><li>• Bone Alkaline Phosphatase</li><li>• Serum Procollagen Propeptide (P-INP)</li><li>• Serum C Terminal (C Telo peptide)</li><li>• 25 Hydroxy Vit D</li><li>• Spares</li></ul>	Serum & Urine	None 	6	Blood Tube & Urine	Send to lab immediately during routine hours.	14 working days	Clinical Chemistry

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



Tests and profiles	Specimen type/ site				Special requirements	Turnaround time	Laboratory
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<ul style="list-style-type: none"><li>Urinary Crosslinks</li><li>Urinary Pyridinium Crosslinks</li><li>Urine Spares</li></ul>							
Bone Marrow Trephine Biopsy	Biopsy	10% Formalin	N/A	20 mL container	None	7 working days if stand-alone	Histology
<i>Bordetella pertussis</i> PCR and culture* <i>B. pertussis</i> antibodies*	Perinasal swab/NPA Blood	None	4.5		COPAN Amies swab with charcoal Transport to lab immediately	15 days	Microbiology
<i>Borrelia burgdorferi</i> Ab (Lyme Disease)*	Blood	None 	4.5	Blood Tube	None	10 working days	Microbiology
Brain Natriuretic Peptide*	Blood	Potassium EDTA 	2 x 2.7 or 1 x 4.9	Blood Tube	Send immediately to the laboratory. Sample is unstable outside 4 hours of sample collection.	10 working days	Clinical Chemistry
BRCA genetic testing	Blood	Potassium EDTA 	10ml EDTA	Blood Tube	Sample must be <24hrs old. BRCA consent form required	21 working days	Haematology









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Bronchoalveolar Lavage for Routine Culture and Susceptibility (In-house) or Cystic fibrosis (CF) culture and susceptibility (Beaumont Hospital)	Bronchoalveolar Lavage	None	5-10 as available	Sterile universal container Flat Base	Refer to section 9.4.6 of Pathology User Manual BSD/PATH/GDE/001 If TB requested see ‘AFB’ above or section 9.4.1 of Pathology User Manual	2 -5 working days in-house.  Referred 14 days (CF)	Microbiology and Beaumont Hospital (CF)
Bronchoalveolar Lavage	Fluid	None	None	Universal	<b>Please indicate if ?TB.</b>	80% by day 10	Cytopathology
<i>Brucella sp.</i> antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Bullous Antibodies/Antigen*	Blood	None 	4.5	Blood Tube	None	20 working days	Blood Sciences
C – Reactive Protein (CRP)	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
C1-esterase inhibitor*	Blood	None  +	3	Blood Tube	Freeze	15 working days	Blood Sciences



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		Sodium Citrate 	+ 2	Blood Tube	Citrated Plasma centrifuged within 3 hours of sample collection and freeze Please ensure the two tubes are sent together and that the sample type is clearly stated on each tube.		
C1Q antibodies*	Blood	None 	4.5	Blood Tube	None	20 working days	Blood Sciences
CA125	Blood	None 	4.9	Blood Tube	None	2 working days	Clinical Chemistry
CA15-3	Blood	None 	4.9	Blood Tube	None	2 working days	Clinical Chemistry
CA19-9*	Blood	None 	4.9	Blood Tube	None	10 working days	Clinical Chemistry
Caeruloplasmin*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry






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Calcitonin*†	Blood	None 	7.5	Blood Tube	Freeze serum within 10 minutes (2 frozen aliquots)	15 working days	Clinical Chemistry
Calcium	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Calcium* (Urinary)	24-hour urine collection	50 mL 2M HCL	10	2L Urine container	<u>Refer to BSD/PATH/GDE/001</u>	10 working days	Clinical Chemistry
Calcium * (Ionised)	Blood	Heparinised Syringe	1	Blood Tube	Arrange test in advance with Clinical Chemistry laboratory as assay must be arranged with Mater Hospital. Transport immediately to laboratory	1 working day	Clinical Chemistry
Calcium/Creatinine Ratio*	Urine	None	10	Sterile Universal Container	Contact lab before sending to lab – must be sent on day of sample collection.	7 working days	Clinical Chemistry

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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Calprotectin*	Stool	None	20	Sterile Universal Container	Send to lab for immediate refrigeration.	20 working days	Blood Sciences
Cannabis*	Urine	None	10	Sterile Universal Container	None	10 working days	Blood Sciences
Carbamazepine* <sup>1</sup>	Blood	None 	4.9	Blood Tube	Take before next dose	7 working days	Clinical Chemistry
Carboxyhaemoglobin*	Blood	None 	4.5	Blood Tube	Send to lab for immediate refrigeration and separation	20 working days	Blood Sciences
Carcinoembryonic Antigen (CEA)	Blood	None 	4.9	Blood Tube	None	2 working days	Clinical Chemistry
Cardiolipin IgG Antibodies (Anti Phospholipid Antibodies) *	Blood	None 	4.5	Blood Tube	Refer to Thrombophilia screen	20 working days	Blood Sciences
Carotene*	Blood	None 	4.5	Blood Tube	Light protect with tin foil; Send to lab for immediate freezing	20 working days	Blood Sciences

<sup>1</sup> All drugs must be requested using generic, not trade names to ensure clarity. Please refer to the current edition of the Irish National Formulary (INF).





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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Catecholamines and Metanephrines*	24-hour urine collection	20mL, 2M HCL	100	2L Urine container	Refer to BSD/PATH/GDE/001	15 working days	Clinical Chemistry
Cerebrospinal Fluid for Microscopy, Culture and Susceptibility* (out of hours CSF sent to Microbiology laboratory, Beaumont hospital.)	CSF	None	Minimum of 1ml in each of three containers	Sterile universal container Flat Base	Refer To BSD/PATH/GDE/001	2-5 working days. Interim microscopy results within 2 hours. ♦	Microbiology
Cerebrospinal Fluid	Fluid	None	None	Universal	None	80% by day 10	Cytopathology
Cervical smear*	Fluid	Thin Prep	Prefilled container	Prefilled container	None	4 weeks	Cytopathology
Chikungunya virus Ab*	Blood	None	4.5	Blood Tube	By arrangement	15 working days	Microbiology
CF Pathogen	Sputum/BAL	None	5-10ml as available	Sterile Universal container	Please indicate if Query TB	15 working days	Microbiology
Chikungunya virus PCR*	EDTA Blood	EDTA	4.5	EDTA Tube	By arrangement	15 working days	Microbiology
Chlamydia pneumoniae PCR (Film Array*)	Nasal and throat swab/			Red top viral swab	Refer to section 10.2.18	15 working days	Microbiology






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	respiratory sample				Contact Consultant Microbiologist		
<i>Chlamydia trachomatis</i> PCR*	Urine/Swab Aptima collection kit		See instructions on Aptima container	Aptima collection kit	None	10 working days	Microbiology
Chloride	Blood	None 	4.9	Blood Tube	None	Urgent < 1hours Routine 3 hours ♦	Clinical Chemistry
Chloride (urine) *	Urine	None	24h collection	24h Container	Record volume of urine	10 working days	Clinical Chemistry
Citrate (urine) *	Urine	None	24h collection	24h Container	Record volume of urine	10 working days	Clinical Chemistry
Cholesterol	Blood	None 	4.9	Blood Tube	None	Routine 3 hours	Clinical Chemistry
Cholesterol – HDL	Blood	None 	4.9	Blood Tube	None	Routine 3 hours	Clinical Chemistry
Cholesterol – LDL	Blood	None 	4.9	Blood Tube	None	Routine 3 hours	Clinical Chemistry

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Cholinesterase *	Blood	None 	4.9	Blood Tube	None	10 working days	Clinical Chemistry
Chromium*	Blood	Sodium heparin (navy cap)	4.9	Blood Tube	None	21 working days	Clinical Chemistry
Chromogranin A*	Blood	None 	4.5	Blood Tube	Send urgently to laboratory as serum sample must be frozen <3 hrs after specimen collection	15 working days	Blood Sciences
Chromosome Analysis Blood*†	Blood	Lithium Heparin 	4.5mL (Adult) x 2	Blood Tube	Preferably Monday to Thursday a.m. Consent form and Constitutional Karyotype Information form required.	19 working days	Blood Sciences
CK-total	Blood	None 	4.9	Blood Tube	None	Urgent < 1hours Routine 3 hours ♦	Clinical Chemistry
CMV IgG*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology







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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
CMV IgM*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
CMV PCR*	CSF/Urine/BAL	None		Sterile universal	Transport immediately to lab.	7 working days	Microbiology
CMV blood PCR/viral load*	Blood	EDTA	4.5	EDTA Tube	Transport immediately to lab.	7 working days	Microbiology
CMV negative and/or Irradiated Red Cells† (Issue of)	Blood	Potassium EDTA 	4.9	Blood Tube	Phone Blood Transfusion Laboratory in advance.	Up to 6 Hours ♦	Blood Transfusion
Cobalt*	Blood	Sodium heparin (navy)	4.9	Blood Tube	Send to lab immediately for freezing.	15 working days	Clinical Chemistry
Coeliac screen: tTG IgA Antibodies * (Positive tTG will be followed by an Endomysial IgA Antibodies Test)	Blood	None 	4.5	Blood Tube	None	7 working days	Blood Sciences
Complement C <sub>3</sub> *	Blood	None 	4.5	Blood Tube	None	5 working days	Blood Sciences










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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Complement C <sub>3d</sub> *	Blood	None 	4.5	Blood Tube	None	5 working days	Blood Sciences
Complement C <sub>4</sub> *	Blood	None 	4.5	Blood Tube	None	5 working day	Blood Sciences
Complement Total (C100)*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Connective Tissue Screen*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Copper*	24-hour urine collection	None	200	2L Urine container	<u>Refer to Section</u> <b>Error! Reference source not found.</b>	15 working days	Clinical Chemistry
Copper*	Blood	Serum or Plasma (EDTA or Lithium Heparin)	4.9	Blood Tube	None.	15 working days	Clinical Chemistry
Cortisol (30 minutes post synacthen)	Blood	None 	4.9	Blood Tube	Take exactly 30 min post synacthen	2 working days	Clinical Chemistry
Cortisol (60 minutes post synacthen)	Blood	None 	4.9	Blood Tube	Take exactly 60 min post synacthen	2 working days	Clinical Chemistry


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Cortisol (pre synacthen)	Blood	None 	4.9	Blood Tube	Patient must be resting	2 working days	Clinical Chemistry
Cortisol (am)	Blood	None 	4.9	Blood Tube	Patient must be resting, take at 8 am	2 working days	Clinical Chemistry
Cortisol (midnight)	Blood	None 	4.9	Blood Tube	Take at midnight	2 working days	Clinical Chemistry
Cortisol (pm)	Blood	None 	4.9	Blood Tube	Take between 3 and 5pm	2 working days	Clinical Chemistry
Cortisol (random)	Blood	None 	4.9	Blood Tube	None	2 working days	Clinical Chemistry
Cortisol Binding Globulin*	Blood	None 	4.9	Blood Tube	Send to lab immediately for freezing	15 working days	Clinical Chemistry
Cortisol Urinary*	24hr urine collection	None	50	2L Urine Container	<u>Refer to BSD/PATH/GDE/001r</u>	15 working days	Clinical Chemistry
<i>Coxiella burnetii</i> (Q Fever Antibodies)*	Blood	None 	4.5	Blood Tube	Refer to section 10.2.18 Serum, EDTA blood	15 working days	Microbiology
Coxsackie virus PCR*	CSF/stool/EDTA blood/throat				Transport to lab. immediately	15 working days	Microbiology

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	swab/respiratory secretions						
C-peptide*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
CPE Screen	Rectal Faeces Swabs/	None	Not relevant	Blue Cap General Transport Swab/Faeces container	Refer to section 9.4.13	Negative: 1 working day Positive: 3-10 working days	Microbiology
CPK Isoenzymes*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Creatinine/EGFR	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry

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Creatinine Clearance	24-hour urine collection	None	10	2L Urine container	Refer to BSD/PATH/GDE/001	Routine 3 hours	Clinical Chemistry
Creatinine Clearance	Blood	None 	4.9	Blood Tube	4.5 mL clotted blood to be taken during 24 hours collection	Routine 3 hours	Clinical Chemistry
			Creatinine				
Crossmatch (Blood Type and Screen already done)	Blood	Potassium EDTA 	4.9	Blood Tube	Provision of blood may be delayed in the event the patient has a positive antibody screen.	Urgent: 90 mins Routine: Up to 4 hours ♦	Blood Transfusion
Cryptococcal antigen*	Blood, CSF	None	4.5	Blood Tube Sterile container	Contact Consultant Microbiologist	7 working days	Microbiology
Cryptosporidia*	Faeces	None		Sterile universal container. Flat base	None	7 working days	Microbiology
Cryoglobulins*	Blood	None 	4.9	Pre-warmed Blood Tube	Keep at 37°C Bring to Clinical Chemistry immediately	10 working days	Clinical Chemistry




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





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Cyclic Citrullinated Peptide Antibodies * (CCP)	Blood	None 	4.5	Blood Tube	None	10 working days	Blood Sciences
Cyclosporin*	Blood	Potassium EDTA 	2.7mL	Blood Tube	Sample should be taken 23-24 hrs. post dosage if patient is on once daily CYA, i.e. just prior to the next dose. Likewise, 11-12 hrs. Post dosage if patient is on twice CYA.	10 working days	Clinical Chemistry
Cystic Fibrosis DNA Studies*†	Blood	Potassium EDTA 	7.5mL (adult)	Blood Tube	Preferably Monday to Thursday a.m. Consent form required.	19 working days	Blood Sciences
Cystine*	Spot Urine	None	10	Sterile Universal Container	10 mL early morning urine (fasting). Frozen <30mins	15 working days	Clinical Chemistry
Cytogenetics* (Flow Cytometry & Lymphocyte subsets) (Sezary cells- Immunophenotyping)	Bone Marrow Or Blood	RPMI or Potassium EDTA 	10 4.9	Special Container or Blood Tube	Samples should be received Mon to Thurs am. Send out on same day.	30 working days	Haematology

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DIF (Skin biopsy)*	Skin Tissue fixed in Zeus medium	Zeus Medium	N/A	Prefilled container with Zeus medium	None	1-2 weeks	Histopathology
Direct Antiglobulin Test	Blood	Potassium EDTA 	4.9	Blood Tube	None	Urgent: 1 hour Routine: Up to 4 hours	Blood Transfusion
D-Dimer	Blood	Sodium Citrate 	3	Blood Tube	Separate sample not required if Coagulation Screen already requested. Sample must be tested within 4 hrs of being taken.	♦ Routine 4 Hours Urgent 70 mins	Haematology
Dehydro Epiandrosterone DHEA *	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Dehydro Epiandrosterone DHEA (Urinary)*	Urine	None	100	2L Urine Container	<u>Refer</u> to BSD/PATH/GDE/001	15 working days	Clinical Chemistry

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Tests and profiles	Specimen type/ site				Special requirements	Turnaround time	Laboratory
		Additive	Volume (mL)	Container			
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Dehydro Epiandrosterone Sulphate DHEAS*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Dihydropyridine Dehydrogenase Deficiency DPD Study 5-FU*	Blood	Potassium EDTA 	3 x 2.7	Blood Tube	Consent and Clinical information	15 working days	Blood Sciences
Dengue virus antibodies*	Blood	None 	4.5	Blood Tube	By arrangement	15 working days	Microbiology
Digoxin* <sup>2</sup>	Blood	None 	4.9	Blood Tube	Usual sampling time is >8 hours after dose or pre dose. Assumed to be oral administration.	7 working days	Clinical Chemistry
Dihydrotestosterone DHT*	Blood	None 	7.5	Blood Tube	None	15 working days	Clinical Chemistry
DNA Antibodies *	Blood	None 	5.5	Blood Tube	None	10 working days	Blood Sciences

<sup>2</sup> All drugs must be requested using generic, not trade names to ensure clarity. Please refer to the current edition of the Irish National Formulary (INF).





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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Double Stranded DNA (dsDNA)*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Echinococcus Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Elastase*	Stool	None	5	Sterile Universal Container	Send to lab for immediate refrigeration	15 working days	Blood Sciences
Electrophoresis Urine*	Early Morning Urine	None	20	Sterile Universal Container	Refrigerate if delay in bringing to Lab	10 working days	Clinical Chemistry
Electrophoresis*	Blood	None 	4.9	Blood Tube	None	10 working days	Clinical Chemistry
Endomysial IgA Antibodies*	Blood	None 	4.5	Blood Tube	None	10 working days	Blood Sciences
Enteroviruses Culture*	Faeces Respiratory secretions	None	10-20	Sterile Universal Container	None	20 working days	Microbiology
		None		Red Cap Viral swab	None	20 working days	





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Enterovirus PCR*	Blood Faeces CSFRespiratory secretions/throat swab/skin swab	EDTA	4.5	EDTA Blood Tube Sterile universal Red Cap Viral Swab	Transport to lab immediately	10 working days	Microbiology
Epstein-Barr virus IgG*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Epstein-Barr virus IgM*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Epstein-Barr virus PCR/viral load*	EDTA Blood	EDTA	4.5	EDTA Tube	None Transport to lab immediately	15 working days	Microbiology
Equilibrium dialysis FT4*	Blood	None 	4.9	Blood Tube	None	21 working days	Clinical Chemistry
Erythrocyte Sedimentation Rate (ESR)	Blood	Sodium Citrate 	3.5	Blood Tube	Specimens should be tested within 4-6 hours of collection or within 24 hours if stored at 2-8°C	4 hours	Haematology
Erythrocyte magnesium*	Blood	Lithium Heparin	4.5	Blood Tube	None	21 working days	Blood Sciences

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Erythrocyte porphyrins*	Blood	EDTA	2x 4.5	Blood Tube	Light protected	21 working days	Blood Sciences
Erythropoietin* †	Blood	None 	4.5	Blood Tube	Send urgently to laboratory as specimen must be frozen immediately after specimen collection	15 working days	Blood Sciences
ESBL Screen	Rectal Swab/Faeces	None	Not Relevant	Blue Cap General Transport Swab/Faeces container	Refer to section 9.4.13	Negative: 1 working day Positive: 3-10 working days	Microbiology
Extractable Nuclear Antibodies (ENA Screen) *	Blood	None 	4.5	Blood Tube	None	10 working days	Blood Sciences


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Factor V Leiden*	Blood	Potassium EDTA  Sodium Citrate 	4x 2.7 mls  Na Citrate x 2	Blood Tube	Thrombophilia request form required Analysis not performed while patient is on Warfarin / Heparin	15 working days	Haematology
Factor VIII Factor VIII related Antigen	Blood	Sodium Citrate 	Na Citrate x 4 for each test	Blood Tube	PT and APTT must be performed in Haem	15 working days	Haematology
Faecal Fat*	Faeces	None	20g	Sterile universal container Flat Base	None	15 working days	Blood Sciences
Faeces for <i>Clostridioides difficile</i> toxin.	Faeces	None	5-10	Sterile universal container Flat Base	Specimen must take shape of container (diarrhoeal specimens only)	1workingday ♦ 2working days ifPCR confirmation required	Microbiology

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Faeces for Intestinal Pathogens	Faeces	None	5-6g	Sterile universal container Flat Base	Faecal Culture for Salmonella, Shigella, Campylobacter E. coli 0157 and other gastrointestinal pathogens depending on Clinical details supplied	Negative: 2 working days Positive: 3 to 5 working days	Microbiology
Faeces for Ova Cysts and Parasites	Faeces	None	5-10	Sterile universal container Flat Base	Refer To BSD/PATH/GDE/001 BSD/MICRO/SOP/028 Investigation of Faeces for Ova, Cysts and Parasites, section 6.1.1 for further details.	Batched samples 7-10 working days	Microbiology
Faeces Occult Blood	Faeces	None	0.5 -1g smeared on Hema-Screen card	Hema-Screen card	Send 3 specimens on 3 consecutive days	1 working day	Microbiology




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Farmers Lung Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Fatty Acids with very long chains*	Blood	EDTA	2x 4.5	Blood Tube	Send to lab for immediate freezing.	21 working days	Blood Sciences
Ferritin	Blood	None 	4.9	Blood Tube	None	2 working days	Clinical Chemistry
Fibrinogen	Blood	Sodium Citrate 	3	Blood Tube	Separate sample not required if PT and APTT already requested. Sample must be tested within 4 hours of being taken	♦ Routine 4 Hours Urgent 60 mins	Haematology
Fibrinogen Concentrates † <sup>3</sup> (Issue of)	None	None	None	None	Request on Blood Transfusion Request Form. Must be signed by requesting Medical Officer. Type & Screen sample not required.	10 minutes	Blood Transfusion




<sup>3</sup> ordered from the IBTS on a named patient basis only

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FGF23 (Fibroblast Growth Factor) *	Blood	EDTA	2x 4.5 ml	Blood Tube	Send to lab for immediate separation and freezing	15 working days	Blood Sciences
Fine Needle Aspirate (Various)	Fluid	Cytolyte	N/A	Pre-filled cytolyte container	None.	80% by day 10	Cytopathology
Fluid from a Sterile Site for Culture and Susceptibility	Ascitic fluid Synovial fluid Bursa fluid Pericardial fluid Peritoneal fluid Pleural fluid	None	5-10	Sterile universal container	Refer to BSD/PATH/GDE/001	Cell count/gram stain/ presence of crystals: 1 working day Provisional report:3 working days Final report: 5-6 working days	Microbiology
		+ Potassium EDTA 	+ 1 x 2.7	Flat Base  Blood Tube			
Folate (Folic Acid)	Blood	None 	4.9	Blood Tube	None	2 working days	Clinical Chemistry
Follicle Stimulating Hormone (FSH)*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry

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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Free light chains*	Blood	None 	4.9	Blood Tube	None	21 working days	Blood Sciences
Free T <sub>3</sub> /T3*	Blood	None 	4.9	Blood Tube	None	10 working days	Clinical Chemistry
Free T <sub>4</sub> (Thyroxine)	Blood	None 	4.9	Blood Tube	None	4 working days	Clinical Chemistry
Frozen Section	Fresh tissue	None	None	Empty histology container	Consultant surgeon must give the laboratory 48hrs advance notice of the planned procedure. On the day Theatre must contact the histopathology department 30 mins prior to commencement of the procedure to ensure required personnel are present to process the sample.	20 minutes per specimen	Histopathology

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Fructosamine*	Blood	None 	2.7	Blood tube	Send to lab for immediate freezing	15 working days	Clinical Chemistry
Fructosamine Glycosylated*	Blood	None 	2.7	Blood tube	Send to lab for immediate freezing	15 working days	Clinical Chemistry
Full Blood Count (FBC)	Blood	Potassium EDTA 	2.7	Blood Tube	Specimens should be tested within 24h of sample collection if stored at 2-8°C	Routine 4 hrs Urgent 1 hr♦	Haematology
Galactomannan antigen test *(Aspergillus)	Blood	None 	4.5	Blood tube	None	5 working days	Microbiology
Gamma GT	Blood	None 	4.9	Blood Tube	None	Urgent < 1hours Routine 3 hours♦	Clinical Chemistry
Gastrin*†	Blood	None 	4.9	Blood Tube	Send urgently to laboratory as specimen must be frozen < 4hrs after specimen collection	25 working days	Clinical Chemistry
Globulin	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours	Clinical Chemistry







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						Routine 3 hours ♦	
Glomerular Basement Membrane Antibodies (GBM)*	Blood	None 	4.5	Blood Tube	None	10 working days	Blood Sciences
Glucagon*†	Blood	Potassium EDTA + aprotinin 	5	Blood Tube	Send urgently to laboratory as specimen must be frozen immediately after specimen collection	25 working days	Clinical Chemistry
Glucose (Random)	Blood	Fluoride 	2.7 adult	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Glucose (CSF)	CSF	Fluoride 	2.7 adult	Blood Tube	Ensure concurrent blood glucose measurement	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry





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Glucose (Fasting)	Blood	Fluoride 	2.7 adult	Blood Tube	12 hour fasting prior to collection	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Glucose (Fluid)	Fluid (pleural etc.)	None	2.7	Sterile Universal Container	None	Routine 3 hours	Clinical Chemistry
Glucose 2 hours post Prandial	Blood	Fluoride 	2.7 adult	Blood Tube	2 hours post meal	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Glucose 6 phosphate dehydrogenase*	Blood	EDTA	4.9	Blood Tube	None	15 working das	Blood Sciences
Glucose Tolerance Test	Blood	Fluoride 	2.7 adult	Blood Tube	Contact Phlebotomy to arrange	3 hours	Clinical Chemistry
GM 1 Antibody*	Blood	None 	4.5	Blood Tube	None	10 working days	Blood Sciences







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GM 2 Antibody*	Blood	None 	4.5	Blood Tube	None	10 working days	Blood Sciences
Growth Hormone*†	Blood	None 	4.9	Blood Tube	Send urgently to laboratory as specimen must be frozen < 4hrs after specimen collection	15 working days	Clinical Chemistry
Haemochromatosis DNA*†	Blood	Potassium EDTA 	2.7 mL	Blood Tube	Preferably Monday to Thursday a.m. Consent form required.	14 working days	Blood Sciences
Haemoglobin Electrophoresis	Blood	Potassium EDTA 	2 x 2.7	Blood Tube	Samples should be received Mon to Thurs am. Order Ferritin and FBC also.	15 working days	Haematology
Hantavirus antibody*	Blood	None	4.5	Blood Tube	Contact Consultant Microbiologist	15 working days	Microbiology











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Haptoglobins *	Blood	None  or Potassium EDTA 	4.5  2.7	Blood Tube  Blood Tube	Clotted or EDTA sample if, FBC already requested	7 working days	Haematology
HbA1c Glycosylated Haemoglobin	Blood	Potassium EDTA 	2.7	Blood Tube	None	7 working days Generally every Tue and Fri	Clinical Chemistry
hCG Serum*	Blood	None 	4.9	Blood Tube	Clinical Details	7 working days	Clinical Chemistry
<i>Helicobacter pylori</i> (Faecal antigen test)*	Faeces	None	10 ml	Sterile universal container	Sample must be tested within 72 h of collection. Freeze after 48 h.	15 working days	Microbiology
Heparin Induced Thrombocytopenia Screen (HITS)	Blood	None 	4.5 x 2	Blood Tube	None	7 working days	Haematology
Hepatitis A Ab Total*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology



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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Hepatitis A IgG*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Hepatitis A IgM*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Hepatitis B Core Antibody (HBcAb)*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Hepatitis B PCR genotyping/viral load*	Blood	None 	4.5	Blood Tube	Transport to the lab immediately	15 working days	Microbiology
Hepatitis B Surface Antibody (HBsAb)* (Immunity Check)	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Hepatitis B Surface Antigen (HBsAg)*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Hepatitis B e antigen (HBeAg)*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Hepatitis B e antibody (HBeAB)*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Hepatitis B core antibody (HBcAB)*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Hepatitis C Antibodies*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology




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Hepatitis C PCR/genotyping/viral load*	Blood	None	9	Blood Tube	Transport to laboratory immediately	15 working days	Microbiology
Hepatitis D Ab*	Blood	None 	4.5	Blood Tube	Patient should be positive for Hepatitis B sAg	15 working days	Microbiology
Hepatitis E Ab*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Hereditary Spastic Paraplegia*	Blood	EDTA	4.5	Blood Tube	Consent Form	15 working days	Blood Sciences
<i>Herpes simplex</i> Ab*	Blood	None	4.5	Blood tube	None	7 working days	Microbiology
<i>Herpes simplex</i> culture*	BAL, NPA, Throat swab, Urine	None		Sterile Universal Container	Transport to lab immediately	15 working days	Microbiology
<i>Herpes simplex</i> PCR*	EDTA	EDTA	4.5	Blood Tube	By special request Contact consultant microbiologist	15 working days	Microbiology
	BAL CSF		400µl		By special request	15 working days	
	Swab			Sterile Universal Container	Transport to lab immediately		








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				Red Cap Viral Swab	Transport to lab immediately		
Histology Samples (Routine including small biopsies, GI biopsies, skin samples)	Fixed tissue	10% Neutral Buffered Formalin	Prefilled container with lid firmly closed	Prefilled formalin pot	None	GI biopsies 80% reported by day 7. Small biopsy, non-biopsy and other specimens 80% reported by day 10.	Histopathology
Histology Samples (cancer resection/non biopsy/other)	Fixed tissue	10% Neutral Buffered Formalin	Prefilled container with lid firmly closed	Prefilled formalin pot	None	80% reported by day 7	Histopathology
Histoplasma Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
HIT Screen	Blood	None 	2 x 4.5	Blood Tube	Request from required. Send sample immediately	15 working days	Haematology
HIV Ab*	Blood	None 	4.5	Blood Tube		2-7 working days	Microbiology

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HIV Viral Load PCR*	EDTA Blood	EDTA	4.5	EDTA Tube	Transport to lab immediately	2-7 working days	Microbiology
Holotranscobalamin*	Blood	None 	4.5	Blood Tube	None	21 working days	Blood Sciences
Homocysteine*	Blood	Lithium Heparin 	4.9	Blood Tube	Send urgently to laboratory as sample must be frozen immediately after specimen collection	15 working days	Clinical Chemistry
HTLV 1 and 2 Ab*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Human Herpes Virus 6 PCR*	Blood	None 	4.5	Blood Tube	Transport to lab immediately	7 working days	Microbiology
Human Leucocyte Antigen (HLA) Typing *	Blood	Potassium EDTA/ Citrate 	2 x 4.9	Blood Tube	None	5 – 10 working days	Blood Transfusion
Human Platelet Antigen (HPA) Typing *	Blood	Potassium EDTA 	2 x 4.9	Blood Tube	None	Not defined	Blood Transfusion
Humira (Adalimumab)*	Blood	None 	4.5	Blood Tube	None	21working days	Blood Sciences









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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Huntington's Disease*†	Blood	Potassium EDTA 	7.5mL	Blood Tube	Preferably Monday to Thursday a.m. Consent form and Constitutional Karyotype Information form required.	19 working days	Blood Sciences
Hydroxyproline*	24 Hour Urine Collection	20 mL 2M HCL	50	2L Urine container	Refer To BSD/PTH/GDE/001	15 working days	Clinical Chemistry
IgA* Immunoglobulin A	Blood	None 	4.5	Blood Tube	None	5 working days	Blood Sciences
IgD* Immunoglobulin D	Blood	None 	4.5	Blood Tube	None	5 working days	Blood Sciences
IgE* Immunoglobulin E (Specific)	Blood	None 	4.5	Blood Tube	None	5 working days	Blood Sciences
IgE* Immunoglobulin E (Total)	Blood	None 	4.5	Blood Tube	None	5 working days	Blood Sciences
IgG* Immunoglobulin G	Blood	None 	4.5	Blood Tube	None	5 working days	Blood Sciences
IgG* Immunoglobulin G Subclasses*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences

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Tests and profiles	Specimen type/ site				Special requirements	Turnaround time	Laboratory
		Additive	Volume (mL)	Container			
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IgM* Immunoglobulin M	Blood	None 	4.5	Blood Tube	None	5 working days	Blood Sciences
Immune Complexes*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Infectious Mononucleosis Screening Test	Blood	None  + Potassium EDTA 	4.5 + 2.7	Blood Tube  Blood Tube	None  Sample not required if FBC already requested	4 hours	Haematology
Infliximab antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Influenza A + B, RSV and SARs-CoV-2 PCR	Naso-Pharyngeal swab (NPS)	Supplied with swab	None	NPS with UTM medium	None	Urgent samples 4 hours, Non urgent samples 48 hours ♦	Microbiology
Inhibin A*	Blood	None 	4.5	Blood Tube	Send urgently to laboratory as sample must be frozen <4	15 working days	Blood Sciences






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					hrs after specimen collection		
Inhibin B*	Blood	None 	4.5	Blood Tube	Send urgently to laboratory as sample must be frozen <4 hrs after specimen collection	15 working days	Blood Sciences
Insulin Like Growth Factor 1 (IGF1) * †	Blood	None 	4.9	Blood Tube	Send urgently to laboratory as sample must be frozen <4 hrs after specimen collection	15 working days	Clinical Chemistry
Insulin Like Growth Factor 2 (IGFII)*	Blood	None 	4.9	Blood Tube	Send urgently to laboratory as sample must be frozen <4 hrs after specimen collection	15 working days	Clinical Chemistry
Insulin*†	Blood	None 	4.9	Blood Tube	Insulin is unstable in whole blood. Serum or plasma must be separated from red cells within 30 minutes of sampling.	15 working days	Clinical Chemistry




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					Failure to do so may lead to falsely low results. **Phone lab before sample collection**.		
Insulin antibodies* (Free + Total) (Anti-Human Insulin Free and Total)	Blood	None 	4.5	Blood Tube	Send to lab for immediate freezing	15 working days	Blood Sciences
Insulin C Peptide*	Blood	None 	4.9	Blood Tube	Send to lab for immediate freezing	15 working days	Clinical Chemistry
Insulin Receptor Antibodies*	Blood	None 	4.5	Blood Tube	Send to lab for immediate freezing	15working days	Blood Sciences
Interferon Alpha*	Serum/fluid/CS F	None 	4.5	Blood Tube/Glass Tube	Send to lab for immediate refrigeration; Attach the clinical information	15working days	Blood Sciences
Intrinsic Factor Antibodies*	Blood	None 	4.5	Blood Tube	Send to lab for immediate freezing	15 working days	Blood Sciences
Iodine*	Urine	None	20	Sterile Universal Container	None	15 working days	Clinical Chemistry




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Iron (Fe)	Blood	None 	4.9	Blood Tube	None	Routine 3 hours	Clinical Chemistry
JAK2 <i>Bcr-abl</i> *	Bone Marrow or Blood	Potassium EDTA 	9ml in RPMI or 9 ml EDTA	Blood Tube	Phone Lab (ext. 5634) – special request form must be filled out	30 working days	Haematology
JC Virus PCR*	Blood CSF Urine	None	4.5	Blood tube Sterile universal container	Transport to lab immediately	15 working days	Microbiology
Keppra (Levetiracetam)*	Blood	None 	4.5	Blood Tube	Blood	15 working days	Blood Sciences
Lactate	Blood	Heparinised Syringe	1	Blood Gas Syringe	Transport immediately to Laboratory, must be assayed within 15minutes.	Urgent < 30 mins ♦	Clinical Chemistry






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					Refer To BSD/PTH/GDE/001		
Lactate Dehydrogenase (LDH Fluid)	Fluid (pleural etc.)	None	2	Sterile Universal Container	None	Routine 3 hours	Clinical Chemistry
Lactate Dehydrogenase (LDH Isoenzymes) *	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Lactate Dehydrogenase (LDH)	Blood	None 	4.9	Blood Tube	Send immediately to the Lab. Sample is unstable outside 2 hours of sample collection.	Urgent < 1hour Routine 3 hours	Clinical Chemistry
Lead*	Blood	Lithium Heparin	7.5	Blood Tube	None	15 working days	Clinical Chemistry
Legionella pneumophila urinary antigen test	Urine	None	20	Sterile Universal Container Flat Base	Refer To BSD/PTH/GDE/001Performed on Consultant Request only.	3 hours	Microbiology
Legionella pneumophila Ab*	Blood	None 	4.5	Blood Tube	Refer To BSD/PTH/GDE/001	10 working days	Microbiology






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						Additional 10 working days confirmation of positives for both tests	
Leishmania Ab*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Leptospira Ab*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Leucocyte Immunophenotyping (Flow Cytometry) *	Bone Marrow or Blood	Potassium EDTA 	2.7	Blood Tube	Samples should be received Mon to Thurs am.	15 working days	Haematology
LGMD2L*	Blood	Potassium EDTA 	2x 4.5	Blood Tube	None	15 working days	Blood Sciences
LH (Lutinising Hormone) *	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Line Tips for culture and susceptibility	Central + Peripheral Cannula tips	None	Not Relevant	Sterile universal container	The culture of urinary catheter tips is not clinically	4 working days	Microbiology

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	Portacath tips Epidural tips			Flat Base	useful and they will not be processed in the laboratory. For central and portacath tips please send distal 4 cms (cut using sterile scissors)		
Lipase*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Lipoprotein electrophoresis*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Lipoprotein A*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Lithium* <sup>4</sup>	Blood	None 	4.9	Blood Tube	Take 12 hours post dose	7 working days	Clinical Chemistry
Lupus Screen* Antithrombin Lupus AC Protein C +S Factor VIII	Blood	Sodium Citrate  None	6 x 3  PC and PS require	Blood Tube	Patients should not be on any anticoagulant therapy or have anticoagulant	15 working days	Haematology

<sup>4</sup> All drugs must be requested using generic, not trade names to ensure clarity. Please refer to the current edition of the Irish National Formulary (INF).









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Fibrinogen APCR Cardiolipin			Na Citrate x 3 2 x serum samples		therapy discontinued for 1 month. Send sample immediately, include therapy info and any relevant history		
Lyme Disease ( <i>Borrelia burgdorferi</i> ) Antibodies*	Blood	None 	4.5	Blood Tube	None	10 working days	Microbiology
Macroprolactin*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Magnesium	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Malaria Parasite screen *	Blood	Potassium EDTA 	2 x 2.7	Blood Tube	Phone Lab (ext. 5324) prior to venepuncture – prompt delivery of sample is required. Request form must be completed.	1 Working day	Haematology






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Manganese*	Blood	Lithium Heparin 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Mannose Binding Lectin*	Blood	None 	4.5	Blood Tube	Send to lab for immediate freezing	15 working days	Blood Sciences
Measles Ab*	Blood	None 	4.5	Blood Tube	None	10 working days	Microbiology
Measles PCR*	Oracol Oral fluid swab	None		Oral fluid swab	Microbiology lab will supply oral swab	7-15 working days	Microbiology
Meningitidis PCR* <i>N. meningitidis, Haemophilus influenzae, Strep pneumoniae</i>	Blood	Potassium EDTA  CSF, Throat swab	2.7	Blood Tube	Contact Microbiology Laboratory	5 working days	Microbiology
Mercury*	Blood	Potassium EDTA 	2.7	Blood Tube	None	15 working days	Clinical Chemistry
Methaemoglobin*	Blood	Potassium EDTA 	2.7	Blood Tube	None	15 working days	Blood Sciences


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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Methylmalonic acid*	Blood	Lithium Heparin	2.7	Blood Tube	Send to lab for immediate processing.	15 working days	Clinical Chemistry
Methotrexate*	Blood	None 	4.5	Blood Tube	Note: Specific details, time of dose, when drawn, patient details etc. Lab require 24 hr notice.	15 working days	Blood Sciences
Microsomal Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Musk antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Myositis specific antibody*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Myoglobin (blood)*	Blood	None 	4.5	Blood Tube	Include clinical information.	15 working days	Clinical Chemistry
Microalbumin * (ACR = albumin) creatinine Ratio	Urine	None	10	Sterile Universal	None	7 working days	Clinical Chemistry



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				Container			
MRSA Screen	Nasal Swabs Groin Swabs Throat Swabs Miscellaneous Swabs	None	Not relevant	Blue Cap General Transport Swab	Refer To BSD/PTH/GDE/001	Negative result: 1 working day Positive result: 2-3 working days	Microbiology
Mumps Ab*	Blood	None 	4.5	Blood Tube	None	10 working days	Microbiology
Mumps PCR*	Oracol Oral Fluid swab	None		Oral fluid swab	Microbiology lab will supply oral swab	7-15 working days	Microbiology
Muscle biopsy*	Fresh Muscle Tissue	Saline dampened gauze	N/A	Dry/ empty Histopathology Container	Theatre must notify the laboratory in advance by phone that a specimen for external testing is to	7-10 working days	Histopathology




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					be sent to the laboratory.		
Mycobacterium TB PCR*	CSF or other normally sterile fluid	None	0.5	Sterile Universal Container Flat Base	Contact Consultant Microbiologist	15 working days	Microbiology
Mycology Fungal Culture	Skin Scrapings Hairs Nail Clippings Tissue Bronchoalveolar lavage	None	5 pieces	Sterile Universal container Flat Base	Refer To BSD/PTH/GDE/001	14 working days. Interim microscopy reports available 2-3 working days	Microbiology
Mycoplasma pneumoniae PCR*	Respiratory sample, combined throat, nasal swab	None		Sterile universal container	Contact Consultant Microbiologist	10 working days	Microbiology
Mycoplasma pneumoniae IgM*	Blood	None 	4.5	Blood Tube	Refer To BSD/PTH/GDE/001	15 working days	Microbiology
Needle Stick Injuries*	Blood	None 	4.5	Blood Tube	Refer to Hospital Policy Occupational Health	1 working day	Microbiology







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<i>Neisseria gonorrhoeae</i> PCR*	Urine-Aptima collection kit	None	See instructions on Aptima kit		Tested with Chlamydia trachomatis	7-15 working days	Microbiology
<i>Neisseria meningitidis</i> Ab*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
<i>Neisseria meningitidis</i> PCR*	Blood	Potassium EDTA 	2.7	Blood Tube	Contact Microbiology Laboratory	5 working days	Microbiology
Nerve biopsy*	Fresh Nerve Tissue	Saline dampened gauze	N/A	Dry/ empty Histopathology Container	Theatre must notify the laboratory in advance by phone that a specimen for external testing is to be sent to the laboratory.	3-4 weeks	Histopathology
Neuronal Antibodies*	Blood	None 	4.5	Blood Tube	None	20 working days	Blood Sciences
Norovirus PCR (previously SRSV, “Winter Vomiting Bug”)	Unformed Faeces	None	10-20	Sterile Universal Container Flat Base	None	3 hours	Microbiology




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N-Terminal pro B-type Natriuretic Peptide (NT-proBNP)	Blood	Lithium Heparin 	4.9	Blood Tube	None	2 working days	Clinical Chemistry
Oestradiol* (Estradiol/Oestradiol/E2)	Blood	None 	4.9	Blood Tube	None	7 working days	Clinical Chemistry
Oligoclonal banding*	CSF	None	3	Sterile Universal Container	Clotted blood taken simultaneously	15 working days	Clinical Chemistry
Ophthalmic pathology specimens*	Fixed tissue	10% Neutral Buffered Formalin	Prefilled container with lid firmly closed 	Prefilled formalin container		5-7  working days	Histopathology
Osmolality	Blood	None 	4.9	Blood Tube	None	Urgent < 2 hours ♦ Routine 3 hours	Clinical Chemistry
Ovarian Antibodies*	Blood	None 	4.5	Blood Tube	None	30 working days	Blood Sciences
Oxalate*	24-hour urine collection	50 mL, 20% HCL	20	2L Urine container	Refer To BSD/PTH/GDE/001	15 working days	Clinical Chemistry

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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Organic Acids Screen (urine)*	Urine	None	5	Sterile Universal Container	Send to lab for immediate processing; include clinical details	15 working days	Clinical Chemistry
Pancreatic Islet Cell Antibodies*	Blood	None 	4.5	Blood Tube	Send to lab for immediate freezing;	15 working days	Blood Sciences
Pituitary antibody*	Blood	None 	4.5	Blood Tube	None	30 working days	Blood Sciences
Placental Alk. Phos*.	Blood	None 	3x 4.9	Blood Tube	Send to lab for immediate freezing;	30 working days	Clinical Chemistry
Plasminogen activator inhibitor*	Blood	Sodium Citrate	4.5	Blood Tube	Send to lab for immediate freezing;	15 working days	Blood Sciences
PTH related Peptide*	Blood	EDTA and Aprotinine (pink top)	4.9	Blood Tube	Send to lab for immediate freezing;	15 working days	Clinical Chemistry
Pyruvate (blood)*	Blood	PCA	4.9	Blood Tube	Contact Lab for PCA tube	15 working days	Clinical Chemistry
Pyruvate (CSF)*	CSF	None	2	Glass tube	CSF to lab for immediate processing	15 working days	Clinical Chemistry









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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Pancreatic Polypeptide PPP*†	Blood	Potassium EDTA + aprotinin 	5	Blood Tube	Send urgently to laboratory as plasma must be frozen < 4hrs after specimen collection	25 working days	Clinical Chemistry
Parasite serology (includes Toxocara, Trichinella, Schistoma, Giardia, Strongyloides, <i>Entamoeba histolytica</i> spp.*	Blood Tube	None	4.5	Blood Tube		15 working days	Microbiology
Parainfluenza types 1-4 PCR*	Nasal/Throat swabs	None		Red Cap Viral Swab	Contact Consultant Microbiologist	5 working days	Microbiology
Parathyroid Hormone (PTH)*	Blood	Potassium EDTA 	2.7	Blood Tube	Freeze plasma if not analysed within 8 hrs.	10 working days	Clinical Chemistry
Paroxysmal Nocturnal Haemoglobinaemia *	Blood	Potassium EDTA 	2 x 2.7	Blood Tube	None	15 working days	Haematology
Parvovirus B19 PCR*	Blood	EDTA	4.5	EDTA Tube	None	15 working days	Microbiology

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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Parvovirus B19 IgM Antibodies*	Blood	None 	4.5	Blood Tube	None	15working days	Microbiology
Phenobarbitone * <sup>5</sup>	Blood	None 	4.9	Blood Tube	Before next dose	7 working days	Clinical Chemistry
Phenytoin* <sup>6</sup>	Blood	None 	4.9	Blood Tube	Before next dose	7 working days	Clinical Chemistry
Phosphate	Blood	None 	4.9	Blood Tube	None	Urgent < 1hours Routine 3hours ♦	Clinical Chemistry
Phosphate* (Urinary)	24-hour urine collection	20 mL 2M HCL	10	2L urine container	Refer To BSD/PATH/GDE/001	working days	Clinical Chemistry
Plasma Viscosity*	Blood	Potassium EDTA 	2 x 2.7	Blood Tube	None. Store @ room temperature. Do not refrigerate.	15 working days	Haematology
Platelet Crossmatching *†	Blood	None 	3 x 4.9	Blood Tube	Clinician must discuss with IBTS	Not defined	Blood Transfusion

<sup>5</sup> All drugs must be requested using generic, not trade names to ensure clarity. Please refer to the current edition of the Irish National Formulary (INF).

<sup>6</sup> All drugs must be requested using generic, not trade names to ensure clarity. Please refer to the current edition of the Irish National Formulary (INF).

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					Medical Personnel prior to taking sample		
Platelets † <sup>7</sup> (Issue of)	Blood	Potassium EDTA 	4.9	Blood Tube	If the patient does not have a Type & Screen sample taken within the preceding month a Type & Screen sample must accompany the request.	Up to 3 hours ♦	Blood Transfusion
Pneumococcal Ab*	Blood	None	4.5	Blood Tube	None	15 working days	Microbiology
Pneumococcal urinary antigen	Urine	None 	20	Sterile urine container	None	3 hours	Microbiology
<i>Pneumocystis jirovecii</i> (formerly <i>carinii</i> ) PCR*	BAL	None	10-20	terile universal container	None	15 working days	Microbiology
Porphyryns (blood)* †	Blood	Potassium EDTA 	2.7 +	Blood Tube	Whole Blood. Protect from Light (cover with tinfoil)	15 working days	Clinical Chemistry

<sup>7</sup> ordered from the IBTS on a named patient basis only






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*: These specimens/ samples are referred to external laboratories for testing.      ♦: Tests provided in the emergency out-of- hours service †: These tests require special patient preparation or conditions. For further clarification, please contact the laboratory before sample collection. Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
		+ Lithium Heparin 	4.9	Blood Tube			
Porphyrins (faeces)* †	Faeces	None		Sterile Universal	Protect from light. (cover with tinfoil)	15 working days	Clinical Chemistry
Porphyrins (urine)* †	24-hour urine collection	None	100	Urine Container	<b>Error! Reference source not found.</b> Protect from light. (cover with tinfoil)	15 working days	Clinical Chemistry
Potassium (K)	Blood	None 	4.9	Blood Tube	Send immediately to the laboratory. Sample is unstable outside 4 hours of sample collection.	Urgent < 1hours Routine 3 hours ♦	Clinical Chemistry
Procollagen 3*	Blood	None 	4.9	Blood Tube	Freeze <1 hr	15 working days	Clinical Chemistry
Progesterone*	Blood	None 	4.9	Blood Tube	None	10 working days	Clinical Chemistry



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Tests and profiles	Specimen type/ site				Special requirements	Turnaround time	Laboratory
		Additive	Volume (mL)	Container			
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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Pro Insulin*	Blood	None 	4.9	Blood Tube	Send to lab for immediate freezing	10 working days	Clinical Chemistry
Prolactin*	Blood	None 	4.9	Blood Tube	None	10 working days	Clinical Chemistry
Prostate Specific Antigen (PSA Free) *	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Prostate Specific Antigen (PSA)	Blood	None 	4.9	Blood Tube	None	2 working days	Clinical Chemistry
Protein (Urinary) *	24-hour urine collection	None	10	2L urine container	<b>Error! Reference source not found.</b>	10 working days	Clinical Chemistry
Protein Total	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Protein Total (CSF)*	CSF	None	1	Sterile Universal Container	None	1 working day	Clinical Chemistry




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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Protein Total (Fluid)*	Fluid (pleural etc.)	None	2	Sterile Universal Container	None	Routine 3 hours	Clinical Chemistry
Prothrombin Complex (500IU) / PCC/Octaplex	None	None	None	None	Request on Blood Transfusion Request Form. Type & Screen sample not required. Must be signed by requesting Medical Officer.	10 minutes	Blood Transfusion
Prothrombin Time (PT) International Normalised Ratio (INR)	Blood	Sodium Citrate 	3	Blood Tube	Testing must be done within 4 hours of specimen collection. INR applicable only for warfarin monitoring.	♦ Routine 4 Hours Urgent 70 mins	Haematology
Pseudomonas PCR*	Throat swab/sputum	None		Bacterial swab Sterile universal container	None	15 days	Microbiology
Quantiferon Gold test for MTB Complex*	Blood	None 	Refer to kit insert	Available with kit.	Special Tubes available from	12-15 working days	Microbiology

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				Order of fill Grey, Red Purple tubes	Microbiology by request Quantiferon TB information leaflet to be completed. Available from Phlebotomy.		
Red Cell Folate*	Blood	Potassium EDTA  + None 	2.7  +  2.7	Blood Tube   Blood Tube	None	15 working days	Blood Sciences
Red Cells (Issue of)	Blood	Potassium EDTA 	4.9	Blood Tube	Provision of red cells may be delayed in the event that a patient has a positive antibody screen.	Urgent: 90 mins Routine: Up to 4 hours	Blood Transfusion
Renal biopsy*	Fresh Renal Tissue	Saline dampened gauze	N/A	Dry/ empty Histopathology Container	Theatre must notify the laboratory in advance by phone	1-6 weeks depending on test	Histopathology

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					that a specimen for external testing is to be sent to the laboratory.		
Renin*†	Blood	Potassium EDTA 	7.5	Blood Tube	Patient must be lying down overnight. Draw recumbent sample at 9.00am with patient remaining supine. Then draw a second sample after a period of remaining upright (4hrs ideally)	15 working days	Clinical Chemistry
Respiratory syncytial Virus Ag (RSV)*	Nasopharyngeal aspirate	None	2	Sterile Universal Container Flat Base	None	2 working days	Microbiology
Rapid Respiratory Viral Screen (Film array) to include e.g. Mycoplasma pneumoniae, Chlamydia pneumoniae,	Combined viral nasal and throat swab or Naso-	None	4.5	NPS with UTM_or Sterile	Error! Reference source not found.	3-5 working days	Microbiology










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Rhinovirus, Enterovirus, Coronavirus *	pharyngeal Aspirate/BAL	Supplied with swabs		Universal Container Flat Base			
Reticulocyte Count	Blood	Potassium EDTA 	2.7	Blood Tube	Can be added on to FBC if taken within 24 hours and stored at 2-8C	1 working day	Haematology
Reverse T3*	Blood	None 	4.9	Blood Tube	Send to lab for immediate processing.	15 working days	Clinical Chemistry
Salicylates*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Scl-70 Antibodies (part of ENA identification) *	Blood	None 	4.9	Blood Tube	None	15 working days	Blood Sciences
Selenium*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Rheumatoid Screen * (RF Latex & CCP)	Blood	None 	4.5	Blood Tube	None	5 working days	Blood Sciences






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<i>Rickettsia sp.</i> Ab, (incl. <i>prowazekii, typhi</i> ) * <i>Coxiella burnetii, Anaplasma phagocytophilum, Ehrlichia spp</i>	Blood/EDTA Blood	None 	4.5	Blood Tube EDTA Tube	None	15 working days	Microbiology
Rubella IgG (Immunity)*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Rubella IgM*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
SARS-CoV-2 (Covid-19) PCR (Note; Combined PCR SARS-CoV-2/Influenza A&B/RSV test also available with the same requirements)	Naso-Pharyngeal swab (NPS)	Supplied with swab	None	NPS with UTM medium	None	♦ Urgent tests-4  hours. Non-urgent tests- 48hours	Microbiology
Schistosomal Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Screening for HLA Antibodies *	Blood	None 	2 x 4.9	Blood Tube	None	5 – 10 working days	Blood Transfusion
Screening for Platelet Alloantibodies *	Blood	None 	2 x 4.9	Blood Tube	None	5 – 10 working days	Blood Transfusion
Serotonin*†	Blood	Lithium Heparin	7.5	Blood Tube	Send urgently to laboratory as	15 working days	Clinical Chemistry



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					specimen must be frozen within 1 hr of specimen collection		
Sex Hormone Binding Globulin SHBG*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
5HIAA Serum*	Blood	None 	4.9	Blood Tube	Send to lab for immediate freezing	15 working days	Clinical Chemistry
Sickle Cell Screen *	Blood	Potassium EDTA 	2 x 2.7	Blood Tube	Prompt delivery of sample is required	Phoned report if HbS present, 15 working days	Haematology
Sirolimus*	Blood	None 	2.7	Blood Tube	Send to lab for immediate freezing	15 working days	Clinical Chemistry

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Sodium (Na)	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Sodium (Na)	Urine	None	10	Sterile Universal Container	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Sulphonylurea*	Urine	None	10	Sterile Universal Container	None	15 Working Days	Blood Sciences
Plasma / Octaplas (Issue of)	Blood	Potassium EDTA 	4.9	Blood Tube	If the patient does not have a Type & Screen sample taken within the preceding month a Type & Screen sample must accompany the request.	30 minutes if blood group is established. (Otherwise 1 hour) ♦	Blood Transfusion
Sputum for Culture and Susceptibility (In-house) and Cystic Fibrosis (CF) culture and	Sputum	None	5-10ml as available	Sterile universal container Flat Base	Refer to section 9.4.6 of Pathology User Manual	2 -5 working days in-house and 14 days referred (CF)	Microbiology








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		Additive	Volume (mL)	Container			
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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
susceptibility (Beaumont Hospital)					BSD/PATH/GDE/001 If TB requested see ‘AFB’ above or section 9.4.1 of Pathology User Manual		
Stone Analysis*	Stone	None	N/A	Sterile universal container Flat Base	None	21 working days	Clinical Chemistry
Swabs for Culture and Susceptibility including ear, eye, mouth, throat, nasal, High vaginal swab (HVS), cervical, urethral, wound and ulcer	Miscellaneous Swabs	None	Not relevant	Blue Cap General Transport Swab	Refer to sections <b>Error! Reference source not found.</b>	2-5 working days	Microbiology
Swabs for Viral Culture*	Nasopharyngeal discharge Faeces Blister/Vesicle fluid	Supplied with swab	Not relevant	Red Cap Viral Swab	None	Up to 20 working days	Microbiology







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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Syphilis Ab*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Testosterone (Free) *	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Testosterone with SHBG*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Thallium*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry
Thalassaemia*	Blood	Potassium EDTA  None 	1 x 4.9 EDTA 1 x 4.9ml serum	Blood Tube	None	15 working days	Haematology
Tacrolimus* (Prograff)	Blood	EDTA	2.7	Blood Tube	None	15 working days	Clinical Chemistry
Testicular antibody*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences






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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Thyroglobulin Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
TPMT Thiopurine S- methyl transferase*	Blood	Potassium EDTA 	4.5	Blood Tube	None	15 working days	Blood Sciences
TSR2 ferroprotein*	Blood	Potassium EDTA 	3* 4.5	Blood Tube	None	15 working days	Blood Sciences
Thyroid receptor antibody*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
TSH receptor antibody*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Trace metals *	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry

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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Theophylline* <sup>8</sup>	Blood	None 	4.9	Blood Tube	Sample time 4 hrs post oral administration of drug or pre dose	7 working days	Clinical Chemistry
Thiopurine-S-Methyl Transferase (Red Cell) (TPMT)*	Blood	Potassium EDTA 	7.5	Blood Tube	None	20 working days	Blood Sciences
Thrombophilia Screen* Protein C Protein S Factor V Leiden Antithrombin APCR PT Gene Mutation Cardiolipin (IGG,IGM)	Blood	Sodium Citrate  Potassium EDTA 	4 x Na Citrate 1 x 2.7 EDTA 1 x serum sample	Blood Tube	Sample must be received by national COAG Lab by 4pm Monday-Friday. Genetic consent required and must be kept in medical chart. Thrombophilia request from required. Samples to be sent immediately	15 working days	Haematology
Thyroglobulin*	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry

<sup>8</sup> All drugs must be requested using generic, not trade names to ensure clarity. Please refer to the current edition of the Irish National Formulary (INF).



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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Thyroid antibody (TPO)	Blood	Lithium Heparin 	4.9	Blood Tube	None	4 working days	Clinical Chemistry
Thyroid Stimulating Hormone	Blood	None 	4.9	Blood Tube	None	4 working days	Clinical Chemistry
Tissue for Culture and Susceptibility	Tissue	None	Not Relevant	Sterile universal container Flat Base	Do not place in Formalin	2 -5 working days	Microbiology
Total T <sub>3</sub> (Triiodothyronine)*	Blood	None 	4.9	Blood Tube	None	10 working days	Clinical Chemistry
Toxicology Screen* <sup>9</sup>	Blood	None 	4.5	Blood Tube	Please state medications	7 working days	Blood Sciences
Toxicology Screen* <sup>10</sup>	Spot Urine	None	20	Sterile Universal Container	Please state medications	7 working days	Blood Sciences
Toxocara Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology


<sup>9</sup> All drugs must be requested using generic, not trade names to ensure clarity. Please refer to the current edition of the Irish National Formulary (INF).







<sup>10</sup> All drugs must be requested using generic, not trade names to ensure clarity. Please refer to the current edition of the Irish National Formulary (INF).

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Toxoplasma IgM*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Toxoplasma Total Ab*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
Transferrin *	Blood	None 	4.9	Blood Tube	12 hrs fasting prior to collection	5 working days	Clinical Chemistry
Transferrin Saturation (Calculation)	Blood	None 	4.9	Blood Tube	12 hrs fasting prior to collection	Routine 3 hours	Clinical Chemistry
Transfusion Reaction Investigation	Blood	Potassium EDTA 	4.9	Blood Tube	Refer to Transfusion Reaction Investigation Form MR/F/25/03 for further samples required. This includes Haematological and Clinical Chemistry analysis and also	Urgent:2 hours ♦ Routine: 1 working day	Blood Transfusion
		+ None 	4.9			Up to 1 week for Microbiologic al or specialized	
	First sample of post transfusion urine	None	10	Sterile Universal Container			

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					blood cultures where indicated.	Haematologic al tests	
Transfusion Related Acute Lung Injury (TRALI) *†	Blood	Potassium EDTA  + None 	2 x 4.9  2 x 4.9	Blood Tube	Clinician must discuss with the IBTS Medical Personnel prior to taking sample	Not defined	Blood Transfusion
Trichinosis Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Microbiology
Triglycerides	Blood	None 	4.9	Blood Tube	If fasting triglyceride is required collect sample after 12 hours fasting	Routine 3 hours	Clinical Chemistry
Troponin I	Blood	Lithium Heparin 	4.9	Blood Tube	<b>Error! Reference source not found.</b>	Urgent < 1 hours ♦	Clinical Chemistry
Tryptase*	Blood	None 	4.5	Blood Tube	When investigating anaphylactic shock	15 working days	Blood Sciences




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					take sample immediately after event and again at 2 and 4 hours.		
TSH Receptor Antibodies*	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Tumour Necrosis Factor*	Blood	None 	4.5	Blood Tube	Send to lab for immediate freezing	15 working days	Blood Sciences
Turner’s Syndrome*†	Blood	Lithium Heparin 	4.5mL	Blood Tube	Preferably Monday to Thursday a.m. Consent form and Constitutional Karyotype Information form required.	19 working days	Blood Sciences
Type and Screen /Blood Type and Screen	Blood	Potassium EDTA 	4.9	Blood Tube	Release of result will be delayed in the event that the patient has a positive antibody screen or a blood group anomaly.	Urgent: 90 mins Routine: Up to 4 hours ♦	Blood Transfusion

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Type and Screen and Crossmatch / Blood Type and Screen and Crossmatch	Blood	Potassium EDTA 	4.9	Blood Tube	Release of result and provision of blood may be delayed in the event that the patient has a positive antibody screen	Urgent: 90 mins Routine: Up to 4 hours ♦	Blood Transfusion
Urate (uric acid)	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Urate * (Urinary)	24-hour urine collection	50 mL 2.5 M NaOH	10	2L Urine container	<b>Error! Reference source not found.</b>	10 working days	Clinical Chemistry
Urea	Blood	None 	4.9	Blood Tube	None	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
	Urine*	None	10	Sterile Universal Container		5 working days	





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Urinary Haemosiderin*	Urine	None	10	Sterile Universal Container	Early morning MSU sample	5 working days	Haematology
Urinary Osmolality	Urine	None	5	Sterile Universal Container	Transport to Laboratory immediately	Urgent < 2 hour Routine 3 hours ♦	Clinical Chemistry
Urinary Sodium (Na)	24-hour urine collection	None	10	5L Urine container	<b>Error! Reference source not found.</b>	Urgent < 1 hours Routine 3 hours ♦	Clinical Chemistry
Urinary Sodium (Spot) (Na)	Urine	None	5	Sterile Universal Container	None	Urgent < 2 hours Routine 3 hours ♦	Clinical Chemistry
Urine for cytology	Fluid	None	N/A	Universal	None	80% by day 10	Cytopathology

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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Urine for Microscopy, culture and susceptibility	Urine MSU CSU Ileal Conduit	None	10	Sterile universal container Flat Base	Refer to section 9.4.12	Negative: 1-2 working days Positive: 2-5 working days	Microbiology
Valproic Acid* <sup>11</sup>	Blood	None 	4.9	Blood Tube	Before next dose	7 working days	Clinical Chemistry
<i>Varicella zoster</i> IgG antibodies*	Blood	None 	4.5	Blood Tube	None	7 working days	Microbiology
<i>Varicella zoster</i> PCR*	CSF	None		Sterile universal container	Contact consultant microbiologist	10 working days	Microbiology
<i>Varicella zoster</i> PCR*	Blood Skin swab, eye swab	None	4.5	Blood Tube Red Cap Viral Swab			
Vasculitis screen *(LIVAB, ARTAB, ANCAP)	Blood	None 	4.5	Blood Tube	None	15 working days	Blood Sciences
Vasoactive Intestinal Peptide (VIP)*†	Blood	Potassium EDTA + aprotinin 	7.5	Blood Tube	Send urgently to laboratory as plasma sample must be frozen <30 minutes	25 working days	Clinical Chemistry

<sup>11</sup> All drugs must be requested using generic, not trade names to ensure clarity. Please refer to the current edition of the Irish National Formulary (INF).

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Tests and profiles	Specimen type/ site				Special requirements	Turnaround time	Laboratory
		Additive	Volume (mL)	Container			
*: These specimens/ samples are referred to external laboratories for testing. ♦: Tests provided in the emergency out-of- hours service †: These tests require special patient preparation or conditions. For further clarification, please contact the laboratory before sample collection. Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
					after specimen collection		
Venlafaxine (Effexor)*	Blood	None 	4.5	Blood Tube	Send to lab for immediate freezing	15 working days	Blood Sciences
Verapamil*	Blood	None 	4.5	Blood Tube	Send to lab for immediate freezing	15 working days	Blood Sciences
Viral Culture*	CSF, Faeces, blister fluid, other body fluids	None	1-20	Sterile Universal Container Flat Base +	Need clinical details for specific viruses	15 working days	Microbiology
	Viral Swab	Supplied with swab	None	Red Cap Viral Swab			
Viral Haemorrhagic Fevers PCR*	EDTA Blood	EDTA	4.5	EDTA Tube	Contact Consultant Microbiologist	15 working days	Microbiology
Vitamin A*	Blood	Lithium Heparin 	4.9	Blood Tube	Protect from light and freeze plasma in <1hr of specimen collection	15 working days	Clinical Chemistry
Vitamin A Binding protein*	Blood	None 	4.9	Blood Tube	Send to lab for immediate freezing; Protect from light	15 working days	Clinical Chemistry








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Vitamin B <sub>1</sub> *	Blood	Potassium EDTA 	4.9	Blood Tube	Protect from light	15 working days	Clinical Chemistry
Vitamin B <sub>3</sub> *	Blood	Potassium EDTA 	4.9	Blood Tube	Protect from light	35 working days	Clinical Chemistry
Vitamin B <sub>6</sub> *	Blood	Potassium EDTA 	2.7	Blood Tube	Protect from light	15 working days	Clinical Chemistry
Vitamin B8 – biotin*	Blood	None 	4.9	Blood Tube	Light Protected – wrap in tinfoil	21 working days	Clinical Chemistry
Vitamin B <sub>12</sub>	Blood	None 	4.9	Blood Tube	None	2 working days	Clinical Chemistry
Vitamin C*	Blood	Lithium Heparin 	7.5	Blood Tube	Plasma frozen < 1 hr. Store away from light.	15 working days	Clinical Chemistry
Vitamin D* (25 OH Vitamin D)	Blood	None 	4.9	Blood Tube	None	15 working days	Clinical Chemistry

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		Additive	Volume (mL)	Container			
*: These specimens/ samples are referred to external laboratories for testing.      ♦: Tests provided in the emergency out-of- hours service							
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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
A measure of overall reserves, dietary intake and endogenous sunlight dependent synthesis.							
Vitamin E*	Blood	None 	4.9	Blood Tube	Protect from light	15 working days	Clinical Chemistry
Von Willebrand Factor Assay	Blood	Sodium Citrate 	Na Citrate x 4	Blood Tube	Send sample immediately	21 working days	Haematology
Voltage Gated Calcium Channel Antibodies *	Blood	None 	4.9	Blood Tube	None	30 working days	Blood Sciences
Voltage Gated Potassium Channel Antibodies *	Blood	None 	4.5	Blood Tube	None	30 working days	Blood Sciences
VRE Screen	Rectal Swabs	None	Not relevant	Blue Cap General Transport Swab	<b>Error! Reference source not found.</b>	Negative: 2 working days Positive: 3-5 working days	Microbiology
West Nile Virus Ab*	Blood CSF	None	4.5	Blood Tube	None	15 working days	Microbiology
Whipple’s Disease ( <i>Tropheryma whipplei</i> ) *	EDTA Blood Biopsies	EDTA	4.5	EDTA Tube	Contact Consultant Microbiologist	20 working days	Microbiology

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Tests and profiles	Specimen type/ site				Special requirements	Turnaround time	Laboratory
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Temporary extension to urgent Clinical Chemistry tests from 60 to 90 minutes- see BSD/PATH/MEMO/074							
Xanthochromia*	CSF	None	2	Clear Glass tube	Light protected – wrap in tinfoil	15 working days	Blood Sciences
Zinc*	Blood	Serum or Plasma (EDTA or Lithium Heparin)	6	Metal-Free Heparin tube	None	15 working days	Clinical Chemistry
Zinc transporter Abs	Blood	None 	4.5	Blood Tube	Keep at room temperature	15 working days	Blood Sciences