

Test	WPE (TLC) code	Sample type	Sample volume	SDH or Sent Away	Turn around time (indicative for non-urgent requests)	Special sample/ transport instructions	Sample storage prior to sending (LAB USE ONLY)
17 Hydroxy Progesterone (Adults)	17OH	Gold / serum	200 IU	Southampton - Biochemistry	10 working days	Store at -20°C	Below -20C
17 Hydroxy Progesterone (Neonates)	BS17OH	Blood spots	2 complete spots / sample	Southampton - Biochemistry	11 working days	Store at room temperature	Room Temp
3 Hydroxybutyrate (Beta Hydroxy Butyrate)	AOTB	Grey / fluoride plasma	0.5 ml	Sheffield Children's Hospital	1 week	Send by first class post	
5HIAA (Quantitative)	HIA2	24 hr urine (glacial acetic acid)	2 ml	Southampton - Biochemistry	11 working days		Below -20C
7-Dehydrocholesterol	AOTB	Green/ Lith Hep plasma or Gold / serum	2 ml	Bristol Southmead	28 days	Ideally protect sample from light (e.g. brown envelope)	Below -20C
ACE	ACE1	Gold / serum	300 µl	Southampton - Biochemistry	< 1 day	Transport at ambient temperature	Below -20C
Acetyl Choline Antibody/ Motor End Plate Antibody	ACHR	Gold / serum	6 ml	Southampton - Immunology	20	None	
ACTH	ACTH	Lavender / plasma – must be separated within 2 hrs	100 µl	Southampton - Biochemistry	2 working days	EDTA Plasma ONLY spun and plasma frozen within 24 hours	Below -20C
Activated Partial Thromboplastin Time (APTT)	CS	Blue / citrate	2.7 ml or 4.5 ml	SDH	4 hours	None	
Acyl Carnitines (Bile Spot)	AOTB	Guthrie card, 2 full spots	Guthrie card, 2 full spots	Sheffield Children's Hospital	4-6 weeks	Send first class post	Room Temp

Acyl Carnitines (Blood spot - Post Mortem)	AOTB	Guthrie card, 2 full spots	Guthrie card, 2 full spots	Sheffield Children's Hospital	4-6 weeks	Send first class post	Room Temp
Acyl Carnitines (Blood spot)	CARNI	Guthrie card (from Li Hep plasma)	Guthrie card (from Li Hep plasma)	Southampton - Biochemistry	5 days		Room Temp
Acyl Carnitines (Plasma)	AOTB	LiHep plasma	0.5ml	Sheffield Children's Hospital	5 - 14 days	Store at -20C, Send first class post	
Acyl Carnitines (Urine)	AOTB	Fresh random urine	2ml	GOSH	1-2 weeks	Send by first class post	
Adalimumab	ADAL	Gold / serum	0.5ml	Royal Devon and Exeter Hospital	10 working days	Trough level recommended (immediately before the next dose is due).	
ADAMTS 13	ADAMTS	Citrate	2.7ml x2	Southampton - Coagulation	2 weeks		
Adenosine Deaminase (Fluid)	AOTB	Fluid or CSF	Pleural and ascitic fluid: 2 - 5 mL required CSF: 1 mL required	Synnovis Hub – Blackfriars Road, London	1 week		
Adrenal Antibody	ADA	Gold / serum	100 µL	Southampton - Immunology	10 working days	None	Below -20C
Adult Autoimmune Neutropaenia	AOTH	Gold / serum	6ml	GOSH	14 working days		Below -20C
AH50 (CH50)	CH50LP	Gold / serum	20 µL	Southampton - Immunology	20 working days	Sample must be frozen within 12 hours after being taken.	Below -20C
Alanine Transaminase (ALT)	LFT LCAP	Gold / serum	2 ml	SDH	1/2 day	None	
Albumin	LFT LCAP BP	Gold / serum	2 ml	SDH	1/2 day	None	
Albumin / Creatinine Ratio	UACR	Early morning urine		SDH	1 day	None	
Alkaline Phosphatase (ALP)	LFT LCAP BP	Gold / serum	2 ml	SDH	1/2 day	None	

Alkaline Phosphatase Isoenzymes	ALPISO	Gold / serum	100 uL	Southampton - Biochemistry	10 working days	Separated serum or plasma stored at 4°C. Haemolysed samples are unsuitable. ALP and GGT required to be tested and reported at SFT prior to sending sample to Southampton for testing	2-8C (Fridge)
Allergen Specific IgE (see IgG)	RAST						
Allo-Antibody Identification Complicated	NRCI	2 x Pink EDTA	2 x 6ml	RCI NHSBT Filton	7 working days	Please ship samples at RT. For postage, packaging must comply with the Carriage and Packaging of Dangerous Goods Act. Samples must be labelled, dated and signed by the person taking them. Addressograph labels are not acceptable unless demand printed label use agreement exists. Samples must be fresh enough at venepuncture to allow NHSBT testing within 7 days of venepuncture	Room Temp
Alzheimer's Biomarker (CSF Phospho-Tau181)	AOTB	CSF	1 ml	University Collage London Hospitals	10 working days	CSF in plain 2ml polypropylene tube. Unhaemolysed CSF MUST be collected in polypropylene tubes, centrifuged, separated and the supernatant frozen on the same day as the LP. Samples from outside NHNN must be transported frozen on dry ice. For long term pre analytical storage CSF must be kept frozen at -80oC	
Alzheimer's Biomarker (CSF Amyloid Beta42 & Amyloid Beta40 ratio)	AOTB	CSF	1 ml	University Collage London Hospitals	10 working days	500mL in separate 2ml polypropylene tubes for each test. Unhaemolysed CSF MUST be collected in polypropylene tubes, centrifuged, separated and the supernatant frozen in 2ml polypropylene tubes on the same	

						day as the LP. Samples from outside NHNN must be transported frozen on dry ice. For long term pre analytical storage CSF must be kept frozen at -80oC.	
Alzheimer's Biomarker (Plasma Phospho-Tau217)	AOTB	2 x EDTA	1 ml	University Collage London Hospitals	15 working days	Minimum sample volume: 500mL spun EDTA plasma and aliquotted in each of two 2ml tubes. Special precautions/Transport: unhaemolysed separated plasma MUST be collected in EDTA tubes, centrifuged, separated and the supernatant frozen into 2ml tubes as soon as possible e.g. within several hours of venesection. Samples from outside NHNN must be transported frozen on dry ice or in Biofreeze. For long term pre analytical storage plasma must be kept frozen at -80oC. Important note: Results may be artificially low if samples are not processed correctly. Renal function should be tested.	
Antibody Panel		Pink / EDTA	6ml	SDH	1 day	If further investigation is required, TAT could be up to 5 days.	
Antibody Screen	ABS8	Pink / EDTA	6ml	SDH	4 hours	None	
Alpha 1 Anti-Trypsin - AAT	AAT	Gold / serum	2 ml	SDH	1/2 day	None	
Alpha 1 Anti-Trypsin Genotyping	AOTB	Lavender / EDTA / whole blood	2 ml	Wessex Regional Genetics	4 weeks	None	Send direct to Genetics
Alpha 1 Anti-Trypsin Phenotyping	AATP	Gold / serum	2 ml	Southampton - Biochemistry	10 days	Alpha 1-Antitrypsin required to be tested and reported at SFT prior to sending sample to Southampton for testing	Below -20C

Alpha Feto Protein - AFP (Tumour Marker)	AFP	Gold / serum	2 ml	SDH	1/2 day	None	
Alpha Galactosidase (FABRY)	AOTB	EDTA / whole blood Cultured Skin Fibroblasts	5 ml	Manchester Centre for Genomics	1 working week	To reach the laboratory within 72 hours of venepuncture	Room Temp
Alpha Glucosidase (POMPE)	AOTB	Lithium heparin / EDTA whole blood Dried blood spot	5 - 10 ml	GOSH	4 to 6 weeks		Room Temp
Alpha Subunit	AOTB	Gold / serum	1 ml	Birmingham - Queen Elizabeth Hospital	25 working days	Centrifuge and separate serum and store at -20°C 1st Class Post	
Aluminium	AL	Navy /Trace (k2EDTA)/ blood	0.5 ml	Southampton - Biochemistry	6 working days	Sent Mon – Fri	2-8C (Fridge)
Amenorrhoea - Hormone Profile (includes FSH, LH, Oestradiol, Prolactin)	AMENO	Gold / serum	2 ml	SDH		None	
Amino Acids	AA	LiHep plasma / Gold / serum	200 UI	Southampton - Biochemistry	10 working days	Sent Mon – Fri. Samples are stored at below -70°C until required for analysis	Below -20C
Amino Acids (Urine)	UAA	Random (children). 24 hr urine (adults)	200 UI	Southampton - Biochemistry	10 working days	Sent Mon – Fri. Samples are stored at below -70°C until required for analysis	Below -20C
Amino Acids (CSF)	CAA	CSF	100 UI	Southampton - Biochemistry	10 working days	Samples are stored at below -70°C until required for analysis	Below -20C
Amiodarone	AMIO	Lavender / EDTA / plasma	1 ml	Cardiff - Toxicology	7 days	Sent Mon – Thur. Gel tubes must be avoided	2-8C (Fridge)
Amisulpride	AOTB	4 mL of EDTA whole blood is preferred (pre-	4 ml	Synnovis Hub – Blackfriars Road, London	5 working days	Please refrigerate (if possible) if not sending immediately. Send by first class post.	2-8C (Fridge)

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		dose or 'trough' sample). Serum or plasma can be used if required, but please avoid gel-separator tubes.					
Ammonia	AMM	Purple / EDTA	-	SDH	1/2 day	Contact lab before taking samples. Immediate results	
Amphetamine L/D Isomer Ratio	AOTB	Urine	500 uL	Black Country Pathology – Sandwell General Hospital	7 working days	Sent Mon – Thur. 1st class post	Below -20C
Amylase	AMY	Gold / serum	2 ml	SDH	1/2 day	None	
Amylase	UAMY	Random urine		SDH	1 day	None	
Amylase	FAMY	Pleural / wound / drain fluids		SDH	1/2 day	None	
Amyloid protein	AMYA	Gold / serum	2ml	Sheffield - Immunology & PRU		Transport at ambient temperature via Royal Mail or Courier.	
ANA, ANF (Anti-Nuclear Antibody Screen), (Connective Tissue Disease screen)	HCTD	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
ANCA (Anti-Neutrophil Cytoplasmic Antibody) / Vasculitis Screen	AAV	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Androstenedione	ANDR	Gold / serum	200 UI	Southampton - Biochemistry	10 working days	Sent Mon – Fri. Store at -20°C	Below -20C
Angiotensin Converting Enzyme (ACE) - see ACE							
Anti-Amphiphysin antibodies	UPNA	Gold / serum	1 ml	Southampton - Immunology	14 days		Below -20C
Anti-B2 Glycoprotein (B2GP1) - request Anti-	HCLG	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C

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Cardiolipin Antibody IgG (Anti-Phospholipid Antibody)							
Antibody quantitation (Red-cell)	NRCI	Pink / EDTA blood	6 ml	NHSBT Filton	7 working days	None	
Anti-Cardiolipin Antibody IgG (Anti-Phospholipid Antibody)	HCLG	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Anti-Cardiolipin Antibody IgM (Anti-Phospholipid Antibody)	HCLM	Gold / serum	200 µL	Southampton - Immunology	10 working days	None	Below -20C
Anti-Centromere Antibody	HCEN	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Anti-D/c Quantification	NRCI	2 x Pink EDTA	2 x 6ml	RCI NHSBT Filton	7 working days	Please ship samples at RT. For postage, packaging must comply with the Carriage and Packaging of Dangerous Goods Act. Samples must be labelled, dated and signed by the person taking them. Addressograph labels are not acceptable unless demand printed label use agreement exists. Samples must be fresh enough at venepuncture to allow NHSBT testing within 7 days of venepuncture	Room Temp
Anti-DNA Antibody, Anti-Ds DNA, "DNA" Binding	DNA	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Anti-Endomysial Antibody (IgA)	EMA	Gold / serum	200 µL	Southampton - Immunology	15 working days	None	Below -20C
Anti-Endomysial Antibody (IgG)	EMG	Gold / serum	1 ml	Basingstoke - Immunology	10 working days		
Anti-GABA +/- GABA B	AOTI	Gold / serum	1 ml	Oxford Immunology	14 days	None	
Anti-Gad (glutamic acid decarboxylase) Antibody (Neurology only)	GAD	Gold / serum	500 µL	Southampton - Immunology	2 weeks	First class post, room temperature	Below -20C

Anti-Glomerular Basement Membrane Antibody	HGBM	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Anti-GQ And Anti-GM1	AOTI	Gold / serum	1 ml	Glasgow - QEUH - Neuroimmunology	28 days	None	Below -20C
Anti-HU (Paraneoplastic Abs)	UPNA	Gold / serum	1 ml	Southampton - Immunology	15 days		Below -20C
Anti-Islet Cell Antibody	ICAT	Gold / serum	500 µL	Royal Devon and Exeter Hospital	2 weeks	First class post, room temperature	
Anti-La	ENAQ	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Anti-MAG (Myelin Associated Glycoprotein)	AOTI	Gold / serum	1 ml	Oxford Immunology	14 days	None	
Anti-Mitochondrial (M2) Antibody	MITO2	Gold / serum	200 µL	Southampton - Immunology	10 working days	None	Below -20C
Anti-Mullerin Hormone (AMH)	AMHB	Gold / serum	1 ml	Southampton - Biochemistry	2 weeks		Below -20C
Anti-MUSK Antibodies	MSKIIF	Gold / serum	1 ml	Oxford Immunology	14 days	None	
Anti-Ri (Paraneoplastic Abs)	UPNA	Gold / serum	1 ml	Southampton - Immunology	25 days		Below -20C
Anti-Ro Antibody	ENAQ	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Anti-Smith Antibodies	ENAQ	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Anti-Smooth Muscle Antibody (SMA)	LKS	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Antithrombin	ATACT	3 x Blue / citrate	2 x 0.5 ml aliquots	Basingstoke - Coagulation	14 days	Send frozen aliquots	
Anti-Yo (Paraneoplastic Abs)	UPNA	Gold / serum	1 ml	Southampton - Immunology	25 days		Below -20C
Apixaban	APIX	1 x 4.5ml Citrate	2 x 0.5ml aliquots	Southampton - Coagulation	On request or 5 working days	Send frozen aliquots	Can be dispatched fresh or as frozen aliquots. Plasma minimum

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							temp -20C frozen
Apolipoprotein A-I and B	AOTI	Gold / serum	2 ml	Sheffield - Immunology & PRU	3 working days		
Aquaporin 4	AOTI	Gold / serum	1 ml	Oxford Immunology	14 days	None	
Asialo Transferrin (Beta2-transferrin)	AOTB	Nasal or aural discharge fluid	> 100 µl	Queens Sq London	6 working days	1st class post, please store frozen if not sending immediately	
Aspartate Transaminase (AST)	AST	Gold / serum	2 ml	SDH	1/2 day	None	
Autoimmune Profile (Liver autoantibody)	LKS	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Autoimmune Thrombocytopenia	HI3D	Yellow SST + 3 x Pink EDTA	6 ml + 3 x 6 ml	H&I NHSBT Filton	7 working days	Platelet count should be <100 x 10 ⁹ DO NOT REFRIGERATE SAMPLES	Room Temp
Azathioprine metabolites(6-TGN & 6-MMPN)	6TGN	Lavender / EDTA / whole blood	0.5 ml	Birmingham - Sandwell	7 working days	Do not freeze, store at 4°C prior to dispatch. Thiopurine metabolites are stable for <3 days at room temperature, up to 10 days at 4°C	2-8C (Fridge)
Basal ganglia Abs	AOTI	Gold / serum	500 µl	Queens Sq London	10 working days	1st class post, sample not haemolysed	
BCR-ABL (mutation analysis)	AOTH	2 x Lavender / EDTA / whole blood	2 x 6 ml tubes	Southampton - Molecular Pathology	14 days	Avoid taking sample on Friday. To arrive at the laboratory within 48 hours of sampling EDTA	2-8C (Fridge)
BCR-ABL(quantitation)	AOTH	2 x Lavender / EDTA / whole blood	2 x 6 ml tubes	Southampton - Molecular Pathology	14 days	Avoid taking sample on Friday. To arrive at the laboratory within 48 hours of sampling EDTA	2-8C (Fridge)
Bence-Jones Protein	UBJ UPCR	Early morning urine	5 ml	SDH	5 working days	None	
Bence-Jones Protein (Quantitation)	AOTI	24 hr Urine (plain)	24 hour urine collection	Sheffield - Immunology & PRU	5 days	Transport at ambient temperature via Royal Mail or Courier.	
Beta 2 Microglobulin	B2M	Gold / serum	200 µL	Southampton - Biochemistry	5 working days	None	Below -20C
Beta Carotene	AOTB	Gold / serum (Protect from light at all times)	3.5 ml	St. Helier Hospital	21 working days	All samples: Protect from light at all times. If taken within St Helier hospital please rush sample to the laboratory. If sample is taken at any	

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						other location it must be separated and serum frozen, send to testing laboratory in usual way	
Bicarbonate	BIC	Gold / serum	2 ml	SDH	1/2 day	FRESH sample / full tube	
Bile Acids / Salts	BA	Gold / serum	2 ml	SDH	1/2 day	None	
Total Bilirubin	LFT LCAP	Gold / serum	2 ml	SDH	1/2 day	None	
Direct Bilirubin	CBIL	Lith. Hep / plasma (paed) Gold / serum (Adult)		SDH	1/2 day	None	
Biological Partner Testing - see Partner Testing (Ante natal)	BIOP	Lavender / EDTA / whole blood	4.5 ml	SDH		7 days	
Biopterins	AOTB	Blood spots (screen) or green Lith.Hep / plasma	6 x 10mm BS	Birmingham - Neonatal	15 working days	Store frozen prior to shipment	Room Temp
Biotinidase	BIOT	Lith. Hep / plasma		Sheffield Children's Hospital	14 working days		
Blood Film	FLM	Lavender / EDTA / whole blood	2ml	SDH	1 day	None	
Blood Gases		Hep syringe ice	N/A	SDH	POCT	None	
Blood Group Adult routine	SF61/SC31	Pink / EDTA	6ml	SDH	4 hours	None	
Blood Group and Antibody Screen	GS	Pink / blood (6 ml) or paed pink / blood (0-6 /12 babies)	6 ml (adult) 1 ml (paed)	SDH	1 day	None	
Blood Group Complicated	NRCI	Pink EDTA	6ml	RCI NHSBT Filton	7 working days	Please ship samples at RT. For postage, packaging must comply with the Carriage and Packaging of Dangerous Goods Act. Samples must be labelled, dated and signed by the person taking them.	Room Temp

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Blood Group Neonate	SN61	Paed Pink / EDTA	1ml	SDH	4 hours	None	
BNP N terminal pro B type natriuretic peptide	BNP	Gold / serum	2 ml	SDH	1/2 day	None	
Bone Marrow (Aspirate) Iron	BMAA	Bone Marrow		SDH	28 days	None	
Bone Marrow (Aspirate) & Trephine Biopsy	BMA	Bone marrow	N/A	SDH	28 days	None	
Bone Profile - includes Albumin, ALP, Calcium, Adjusted Calcium and Phosphate	BP	Gold / serum	2 ml	SDH	1/2 day	None	
Bromide	AOTB	Serum and urine	2 ml	HSE Science and Research Centre		Must be checked by Duty Biochemist	
C1 Esterase Inhibitor (Immunochemical)	C1ES	Gold / serum	200 µL	Southampton - Immunology	20 working days	Not frozen	
Complement - C3	C3C4	Gold / serum	2 ml	SDH	1/2 day	None	
Complement - C4	C3C4	Gold / serum	2 ml	SDH	1/2 day	None	
CA 125	CA125	Gold / serum	2 ml	SDH	1/2 day	None	
CA 15-3	CA153	Gold / serum	2 ml	SDH	1/2 day	None	
CA 19-9	CA199	Gold / serum	2 ml	SDH	1/2 day	None	
Caeruloplasmin	CAER	Gold / serum	200 uL	Southampton - Biochemistry	2 days	None	Below -20C
Caffeine	AOTB	Lithium heparin / plasma	0.5 ml	Sheffield Children's Hospital	7 working days		
Calcitonin	CALC	Gold / serum / (on ice. Fasting)	0.5 ml minimum	Charing Cross Hospital	10 days	Rush to lab on ice - separate as quickly as possible (within 30 mins) cold spin and freeze. SEND FROZEN.	
Calcium (adjusted)	LCAP BP	Gold / serum	2 ml	SDH	1/2 day	None	

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Calcium (24 Hr Urine)	24CA	24 hr urine	2 ml	SDH	1 day	None	
Calcium / Creatinine Clearance Ratio	CCCR	24 hr urine (fresh) + gold/serum	2 ml (serum)	SDH	1 day	None	
Calcium / Creatinine Ratio	UCA	Random urine (fresh)	5 ml	SDH	1 day	None	
Calprotectin	CALF	Faeces	N/A	SDH	5 days	None	
Carbamazepine	CARB	Gold / serum / (pre-dose)	2 ml	SDH	1/2 day	None	
Carbohydrate – Deficient Transferrin	CDTS	Gold / serum	2 ml	Sheffield - Immunology & PRU	10 working days	Requests from outside Sheffield: transport at ambient temperature via Royal Mail or Courier.	
Carbon Monoxide		Green / Lith. Hep. / Whole Blood	2 ml	SDH	POCT	None	
Carboxy-Haemoglobin	COHB	Green / Lith. Hep. / Whole Blood	2 ml	SDH	POCT	None	
Cardiac Muscle Antibody	AOTI	Gold / serum	2 ml	Sheffield - Immunology & PRU	5 days	None	
CEA	CEA	Gold / serum	2 ml	SDH	1/2 day	None	
Cell Markers - SFT referral	SCMR						
Cell Markers: Bone Marrow Request as cell markers SFT referral	SCMR	Bone marrow in orange, screw cap, heparin	2-3 mls	Southampton - Immunology	10 working days	None	
Cell Markers: Immunodeficiency Screen CD4 Count Request as cell markers SFT referral	SCMR	Lavender / EDTA / whole blood	3 ml minimum	Southampton - Immunology	10 working days	None	
Cell Markers: Lymphocyte Markers Request as cell markers SFT referral	SCMR	Lavender/ EDTA or Green/Lith Hep. Whole blood	3 ml minimum	Southampton - Immunology	10 working days	Discuss with Consultant Haematologist. DO NOT TAKE BLOOD ON FRIDAY	

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Cell Markers: Other Specimen Types e.g. CSF Request as cell markers SFT referral	SCMR	Bone marrow in orange, screw cap, heparin	CSF 2 ml / 5 cells/mm ³	Southampton - Immunology	10 working days	None	
Chloride	CL	Gold / serum (Urine not avail)	2 ml	SDH	1/2 day	None	
Chloride (Sweat)	SWEAT	Sweat	N/A	SDH	1 day	None	
Cholesterol (Total) - Paediatrics only	CHOL	Gold / serum	2 ml	SDH	1/2 day	None	
Cholesterol (Total) - Non Paediatric requests	LIP	Gold / serum	2 ml	SDH	1/2 day	None	
Cholinesterase	CHOLIN	Lavender / EDTA / whole blood	3 ml	Bristol Southmead - Cholinesterase Unit	3 weeks	1st class post ASAP Sample should not be taken during a suspected episode of suxamethonium prolonged apnoea, take once awake and breathing unaided.	2-8C (Fridge)
Cholinesterase Genotyping	AOTB	Lavender / EDTA / whole blood	3 ml	Bristol Southmead	10 weeks	1st class post ASAP Sample should not be taken during a suspected episode of suxamethonium prolonged apnoea, take once awake and breathing unaided.	2-8C (Fridge)
Cholinesterase Phenotyping	AOTB	Lavender / EDTA / whole blood	1 ml	Bristol Southmead	3 weeks	2nd class post ASAP Sample should not be taken during a suspected episode of suxamethonium prolonged apnoea, take once awake and breathing unaided.	2-8C (Fridge)
Chromium and Colbalt (whole blood)	HIP	Navy / Trace / whole blood	0.5 ml	Southampton - Trace Metals	7 working days	None	
Chromium (whole blood)	CR	Navy / Trace / whole blood	0.5 ml	Southampton - Trace Metals	7 working days	None	
Chromogranin A	CHRO	Lavender / EDTA plasma / (on ice)	0.4 ml	Charing X - SAS Lab	21 days	EDTA plasma, spin sample within 15 minutes of venepuncture. Store and send frozen.	Below -20C

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Chromogranin A and B	CHROM	Lavender / EDTA plasma / (on ice)	0.4 ml	Charing X - SAS Lab	21 days	EDTA plasma, spin sample within 15 minutes of venepuncture. Store and send frozen.	Below -20C
Ciclosporin	CICPOR	Lavender / EDTA / whole blood	200 µL	Portsmouth	48 hours	Cannot be shared with other tests	2-8C (Fridge)
Ciclosporin	CICLO	Lavender / EDTA or Green / Lithium heparin whole blood	500 uL	Southampton - Biochemistry	1 day (excluding transport time)	Samples should be timed for a 12 hour trough level. In some clinical circumstances, samples may be taken at 2hrs post dose (C2 protocol). These will be greater than 450 ug/L and will need to be immediately run using the dilution protocol. Store samples at 4°C pre and post analysis.	2-8C (Fridge)
Citrate (24 hour urine)	24CIT	Collect into 2.5L plastic bottles with no preservative	20mL sterilin universals	Southampton - Biochemistry	6 working days	Collect into 2.5L plastic bottles with no preservative and aliquot into 20mL sterilin universals. Stored at 4 °C	2-8C (Fridge)
Citrate (Random urine)	UCIT	Random urine	20 mls	Southampton - Biochemistry	6 days	20mL sterilin universals. Stored at 4 oC	2-8C (Fridge)
CK (see Creatinine Kinase)							
CK Isoenzymes	AOTB	Gold / Serum	1 ml	Royal Free London	1 month	1st class post	
Clobazam	AOTB	Gold / serum	200µl	Epilepsy Society, Chalfont St. Peter	3 working days	1st class post at room temperature meeting post office regulations for pathological specimens	
Clonazepam	AOTB	Gold / serum	200µl	Epilepsy Society, Chalfont St. Peter	3 working days	2nd class post at room temperature meeting post office regulations for pathological specimens	
Clotting Screen or Coagulation Screen	CS	Blue / citrate	2.7 ml or 4.5 ml	SDH	1/2 Day	None	
Clozapine	AOTB	Lavender / EDTA / plasma	2 ml	King's College Hospital	2 working days	Serum or plasma can be used if required, but please avoid gel- separator tubes.	2-8C (Fridge)

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						Please refrigerate (if possible) if not sending immediately. Send by first class post.	
Cobalt (24HR Urine)	UCO2	24 hour urine	24 hour urine collection	Southampton - Trace Metals	5 working days		
Cobalt (Cobalt/Creatinine Ratio)	UCOU	Random Urine		Southampton - Trace Metals	5 working days		
Cobalt (other)	ZCO	Fluid		Southampton - Trace Metals	5 working days		
Cobalt (whole blood)	CO	Greiner Trace Element Na Hep tube (Royal blue top)	6 ml	Southampton - Trace Metals	5 working days		
Collagen crosslinks C-terminal telopeptide	AOTB	Lavender / EDTA / plasma	0.5 ml	Norfolk & Norwich	2 weeks	Separate and freeze plasma, send frozen.	Below -20C
Copeptin	AOTB	Gold / serum (Lithium Heparin also accepted)	1 ml	Newcastle upon Tyne	14 working days	Copeptin measurements are of most value when taken under an osmotic stimulus. Please include clinical details and concurrent osmolality results with all requests.	Separated: 7 days at 20 to 25°C 14 days at 4 to 8°C
Copper	CU	Navy / Trace / plasma (adults) or Trace / plasma (paeds)	0.5 ml	Southampton - Biochemistry	4 working days	None	Below -20C
Copper - 24 hr urine	CU24	24 hour urine	5 ml	Southampton - Trace Metals	5 working days		
Cortisol	COR	Gold / serum / (0900 am ideally)	2 ml	SDH	1/2 day	None	
Cortisol (Salivary)	SCOR	Saliva		Southampton - Biochemistry	10 working		
Cortisol (Urine Free)	24CORS	24 hr Urine	1 ml	Southampton - Biochemistry	10 working days	A 24 hour urine collected into a plain bottle Store at -20°C	Below -20C
Cortisol Blood Spot Series	BSCOR	Blood spots	2 spots / sample	Southampton - Biochemistry	10 working days	Store at room temperature	Room Temp

Cotinine (urine)	UCOT	Random urine	100uL	Wythenshawe Hospital at Manchester	2 weeks	Stable for 4 days at room temperature. Recommend send frozen (store at -20°C). 1st class post	Below -20C
C-Peptide	CPEP	Gold / serum / (to lab urgent)	200 uL	Southampton - Biochemistry	5 working days	Sample must be separated and frozen within 2 hours of venesection Bilirubin can suppress results. Samples with visible jaundice should have the coded comment CPEPJ - “ Please note: This sample has visible jaundice. Bilirubin can suppress the C-peptide result”	Below -20C
C-Peptide & Insulin	INCP	Gold / serum / (to lab urgent)	200 uL	Southampton - Biochemistry	5 working days	Sample must be separated and frozen within 2 hours of venesection Bilirubin can suppress results. Samples with visible jaundice should have the coded comment CPEPJ - “ Please note: This sample has visible jaundice. Bilirubin can suppress the C-peptide result”	Below -20C
C-Reactive Protein	CRP	Gold / serum	2 ml	SDH	1/2 day	None	
Creatinine	RE	Gold / serum	2 ml	SDH	1/2 day	None	
Creatinine	24CRE	24 hr Urine (plain)	N/A	SDH	1 day	None	
Creatinine	UCRE	Random Urine	5 ml	SDH	1 day	None	
Creatinine	FCRE	Wound drain fluids	2 ml	SDH	1/2 day	None	
Creatinine Clearance	CC	24 hr Urine (plain) + Gold / serum	2 ml (serum)	SDH	1 day	None	
Creatinine Kinase	CK	Gold / serum	2 ml	SDH	1/2 day	None	
Crossmatch		Pink / EDTA	6 ml	SDH	1/2 day	None	
Cryoglobulins	CRY	3 x Gold / serum 2	2 ml (each tube)	Bristol Southmead	1 week	None	See Cryoglobulin SOP
CSF Cytospin, CSF Examination For Abnormal WBCs / Blast Cells	CSFB	CSF (plain bottle). Do NOT send via air tube	0.5 ml	SDH	1/2 day	DO NOT USE THE AIR TUBE, let the laboratory know it is being sent	

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Cyanide	AOTB			Cardiff - Llandough		Discuss with Duty Biochemist	
Cyclic Citrullinated Peptide Antibody (CCP)	CCP	Gold / serum	2 ml	SDH	1/2 day	None	
Cystatin C	AOTB	Gold / serum	200ul	Synnovis Hub – Blackfriars Road, London	1 working day		Below -20C
Cystine Quantitative - See Amino Acids (Urine)	UAA						
Cystine Screen - See Amino Acids (Urine)	UAA						
Cystinosis (Leucocyte Cystine)	AOTB	Green/ Lith.hep blood, to lab ASAP Do not separate. Store whole blood at room temperature. Must arrive at Block 46 SJUH within 24 hours of venepuncture.	Minimum 3ml Lithium Heparin whole blood. Samples more than 24 hours old on receipt will be rejected	Leeds - St James's Hospital	28 days	Do not separate. Store whole blood at room temperature. Must arrive at Block 46 SJUH within 24 hours of venepuncture to allow white cell preparation (takes 2.5 hours, not available at weekends).	
Dabigatran	DAB	3 x Blue / citrate	2 x 0.5 ml aliquots	Southampton - Coagulation	On request or 5 working days	Send frozen aliquots	Can be dispatched fresh or as frozen aliquots. Plasma minimum temp -20C frozen
D-Dimer	DD3	Blue / citrate	4.5 ml	SDH	1 hour	None	
Dexamethasone Suppression Test	COR	Gold / serum / (0900 am)	2 ml	SDH	1 day	None	
DHEAS	DHEA	Gold / serum	200 UI	Southampton - Biochemistry	10 working days	Store at -20°C	Below -20C

Digoxin	DIG	Gold / serum / (6-12 hr post dose)	2 ml	SDH	1/2 day	None	
Dihydrotestosterone	AOTB	Gold / serum	0.5 ml	King's College Hospital	14 days	Serum aliquots are stable at 4°C for 24 hours. Store at -20°C thereafter.	Below -20C
Direct Antiglobulin Test (DAT)	DATS/DAT8	Pink / EDTA	6ml	SDH	4 hours	None	
Drug Induced Antibody Mediated Neutropenias	HI3E	Yellow SST + Sample of implicated drug	6ml	H&I NHSBT Filton	20 working days	Pharmacological concentration of drug used needed	
Drug Screen - unknown substance screen	FLIGHT	Random urine (30 ml minimum) + + Lavender / EDTA blood + grey / Fluoride plasma + Gastric aspirate, tissues, vomit	15-20 ml urine 5 ml serum / plasma	Black Country Pathology – Sandwell General Hospital	up to 3 weeks	1st class post If analysis is urgent discuss with duty Biochemist. Toxicology requests will be stored for 10 days, please send urine/gastric contents as necessary. If analysis IS required discuss with duty Biochemist. 1st class post	2-8C (Fridge)
Drugs Of Abuse Screen (Full)	DOAR	Random urine	5 ml	Black Country Pathology – Sandwell General Hospital	3 working days	1st class post, courier if urgent	Below -20C
DPYD	AOTH	2x EDTA samples	6 ml	Southampton - Molecular Pathology	14 Working days	Whole blood is used. Uncertainty of measurement shows that this is stable for >6 months.	2-8C (Fridge)
Edoxaban	EDOX	3 x Blue / citrate	2 x 0.5 ml aliquots	Southampton - Coagulation	On request or 5 working days	Send frozen aliquots	Can be dispatched fresh or as frozen aliquots. Plasma minimum temp -20C frozen
EGFR	RE	Gold / serum	2 ml	SDH	1/2 day	None	

Elastase (see Pancreatic Elastase)							
Electrolytes (Na + K)	24E	24 hr urine (plain)	N/A	SDH	1 day	None	
Electrolytes (Na + K)		Pleural / wound / drain fluids	N/A	SDH	1/2 day	None	
Protein Electrophoresis & Immunoglobulins (G,A,M)	PE	Gold / serum	2 ml	SDH	5 working days	None	
Enhanced Liver Fibrosis Score	ELF	Gold / Serum	200 uL	Southampton - Biochemistry	5 working days	Store at -20°C	Below -20C
ENA (Extractable Nuclear Antigens) Screen	ENAQ	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
ESR	ESR	Lavender / EDTA	2ml	SDH	1 day	Must be performed within 12 hours of sample being taken.	
Ethanol	ETH	Grey / fluoride plasma	2 ml	SDH	1/2 day	None	
Ethylene Glycol	ETHG	Grey / fluoride plasma	300 uL	Black Country Pathology – Birmingham City Hospital	In routine hours: 1 hour from sample receipt. Out of hours: 4 hours from sample receipt.	See DOC Lab Med 253: Black Country Pathology Services (BCPS) Ethylene Glycol Service – Urgent Sample Procedure	Samples should be stored at 4°C prior to sending and should be sent at ambient temperature.
Erythropoietin	EPO	Gold / serum	250 µL	Southampton - Biochemistry	2 working day	Send Frozen	Below -20C
Ethosuximide	AOTB	Lithium heparin / plasma Gold / serum	200µl	Epilepsy Society, Chalfont St. Peter	3 working days	Gold / serum is acceptable if taken off of the gel immediately after separation.	
Extended RBC Phenotype	NRCI	Pink EDTA	6ml	RCI NHSBT Filton	7 working days	Please ship samples at RT. For postage, packaging must comply with the Carriage and Packaging of Dangerous Goods Act. Samples must be labelled, dated and signed	Room Temp

						by the person taking them. Addressograph labels are not acceptable unless demand printed label use agreement exists. Samples must be fresh enough at venepuncture to allow NHSBT testing within 7 days of venepuncture	
Factor II Assay	F2A	2 x Blue / citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	
Factor V Assay	F5A	2 x Blue / citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	
Factor V Leiden Genotype	FVL	Lavender / EDTA / whole blood	2 ml	Wessex Regional Genetics	4 weeks	None	Send direct to Genetics
Factor VII Assay	F7A	2 x Blue / citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	
Factor VIII Assay	F8A	2 x Blue / citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	
Factor VIII Chromagenic	F8C	2 x Light Blue top citrate tubes	4.5 ml	Basingstoke - Coagulation	14 working days		
Factor IX Chromagenic	F9C	2 x Light Blue top citrate tubes	4.5 ml	Basingstoke - Coagulation	14 working days		
Factor Inhibitor Screen	PTM (extrinsic) APTTM (Intrinsic)	2 x Blue citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	
Factor VIII Inhibitor	F8IC	2 x Blue citrate	4.5 ml	Basingstoke - Coagulation	14 days		
Factor IX Assay	F9A	2 x Blue / citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	
Factor IX Inhibitor	F9IC	2 x Blue / citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	
Factor X Assay	F10A	2 x Blue / citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	

Factor Xa (anti Xa) Heparin (LMWH)	LMWH	1 x Blue / citrate	1 ml separated plasma	SDH	1 day	At least 1 ml plasma from citrate separated and frozen if not tested same day.	
Factor Xa (anti Xa) Heparin (UFH)	AXA	1 x Blue / citrate	1 ml separated plasma	SDH	1 day	At least 1 ml plasma from citrate separated and frozen if not tested same day.	
Factor XI Assay	F11A	2 x Blue / citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	
Factor XII Assay	F12A	2 x Blue / citrate	4.5 ml	SDH	1 week	Sample separated and plasma frozen until analysis	
Factor XIII Assay	F13A	2 x Blue citrate	4.5 ml	Basingstoke - Coagulation	14 days		
Family of Origin Questionnaire (FOQ)	FOQ	1 x Purple EDTA 1 x Pink EDTA 1 x SST	5 ml	SDH	3 days		
Ferritin	FER	Gold / serum	2 ml	SDH	1/2 day	None	
Fertility Screen (Male or Female) (includes FSH, LH, Prolactin and Testosterone)	INFE	Gold / serum	2 ml	SDH		None	
Fetal/Neonatal alloimmune Thrombocytopenia (NAIT)	HI3D	Mother - Yellow SST + Pink EDTA Father - Pink EDTA Baby - Paed Pink EDTA	Mother - 6 ml + 6 ml Father - 6 ml Baby - 1 ml	H&I NHSBT Filton	21 working days	None	
Fibrinogen	FIBC	Blue / citrate	4.5 ml	SDH	1/2 day	None	
FIT Testing		FIT testing (if received, do not book into WinPath and forward to Southmead Biochemistry or So'ton Biochemistry)					

		as appropriate for testing)					
FK506 (see Tacrolimus)							
Flecainide	FLEC	Lavender / EDTA / plasma	0.5 ml	Cardiff - Toxicology	7 days	Gel tubes must be avoided	2-8C (Fridge)
FMH Screen	KLEI/FCC	Pink / Purple EDTA	3 ml	SDH	3 days		
FMH Estimation/Quantificatio n (for RhD Negative Mothers)	FCC	Pink EDTA	6ml	RhD Negative Mothers: Southampton Immunology (Flow cell).	1 working day		
FMH Estimation/Quantificatio n (for RhD Positive Mothers)	KLEI	Pink EDTA	6ml	RhD Positive Mothers: Poole Hospital Blood Transfusion (Kleihauer).	1 working day		
Folate (Serum)	FOL	Gold / serum	2 ml	SDH	1/2 day	None	
Follicle Stimulating Hormone - FSH	FSH	Gold / serum	2 ml	SDH	1/2 day	None	
Free Androgen Index (FAI) - Female (includes Testosterone, SHBG, FAI)	FAI	<i>Derived test</i>	2 ml	SDH	1/2 day	None	
Free Androgen Index (FAI) - Male / Free Testosterone (includes Testosterone, SHBG, Albumin, Free testosterone)	FTES	Gold / serum	2 ml	SDH		None	
Free Fatty Acids	AOTB	Grey / fluoride plasma	2 ml	Sheffield Children's Hospital	1 week	Send by first class post	
Free Light Chains (Serum)	FLC	Gold / serum	2 ml	SDH	5 days	None	
Free Light Chains for amyloid	AOTB	Gold / serum	1 ml	Royal Free London	5 working days	1st class post	
Free PSA (inc. Free/Total PSA Ratio)	AOTB	Gold / serum	0.5 ml	Charing Cross Hospital	4 days	Discuss with Duty Biochemist	
Free T3	FT3	Gold / serum	2 ml	SDH	1/2 day	None	

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Free T4	FT4	Gold / serum	2 ml	SDH	1/2 day	None	
Free Testosterone (Calculated)	FTES	Gold / serum	2 ml	SDH	1/2 day	None	
Fructosamine	FRUC	Gold / serum	5 ml	Bath	7 days	None	Below -20C
Full Blood Count (FBC)	FBC	Lavender / EDTA / whole blood	500ul (paed) 1 ml (adult)	SDH	1/2 day	None	
Functional C1 Esterase Inhibitor	C1EF	Gold / serum	6 ml	Southampton - Immunology	20 days	Sample needs to be frozen within 6 hours.	Below -20C
Galactosaemia Screen	AOTB	Green /Lith Heparin Lavender EDTA whole blood or blood spots DBS	1 ml	Bristol Southmead	7 days	None	2-8C (Fridge)
Gamma Glutamyl Transferase	GGT	Gold / serum	2 ml	SDH	1/2 day	None	
Gastrin – Fasting - See Gut Hormones	GUT	Lavender / EDTA plasma / (on ice)	0.4 ml	Charing X - SAS Lab	21 days	EDTA plasma, spin sample within 15 minutes of venepuncture. Store and send frozen.	Below -20C
Gentamicin (Once Daily)	GENT	Gold / serum 0-2 hr pre-dose	2 ml	SDH	1/2 day	None	
Gentamicin (Other Regimes)	GENT	Gold / serum pre and 1 hr post dose,	2 ml	SDH	1/2 day	None	
Gentamicin (Random Sample)	GENT	Gold / serum state time	2 ml	SDH	1/2 day	None	
Globulin		<i>Derived test</i>	2 ml	SDH	1/2 day	None	
Glucagon – Fasting - See Gut Hormones	GUT						
Glucose (Body fluids - not CSF)	FG	Pleural fluid / wound / drain / ascites / aqueous or vitreous		SDH	1/2 day	None	

		humour (Post Mortem)					
Glucose (CSF)	CG (fluoride preserved) NCG (unpreserved)	CSF		SDH	1/2 day	None	
Glucose – GPs or more than 4 hrs delay	G (random) GF (fasting)	Grey / fluoride plasma	2 ml	SDH	1/2 day	None	
Glucose – Hypoglycaemia		Grey / fluoride plasma + Gold / serum (to lab ASAP)	2 ml	SDH	1/2 day	None	
Glucose – Wards / less than 4 hrs delay	GLU (random) GLUF (fasting)	Gold / serum	2 ml	SDH	1/2 day	None	
Glucose Tolerance Test GTT	GTT	Grey / fluoride plasma / fasting 0 + 2 hr	2 ml	SDH	1/2 day	None	
Glucose-6-Phosphate Dehydrogenase (Quantitative)	G6PDQ	Lavender / EDTA / whole blood	4 ml	Birmingham Heartlands Hospital	3 days	Normal EDTA taken on same day to act as a travel control	Room Temp
Gp210 antibodies - See Liver Blot	LIVUHS						
Growth Hormone GH	GROWTH	Gold / serum / (sample to lab ASAP)	100 UI	Southampton - Biochemistry	5 working days	"Store at -20 C Patients on hGH therapy may develop human antibodies that will interfere in the assay and cause falsely low results"	Below -20C
Gut Hormones– Fasting	GUT	Lavender / EDTA plasma / (on ice)	3 ml	Charing X - SAS Lab	21 days	EDTA plasma, spin sample within 15 minutes of venepuncture. Store and send frozen.	Below -20C
Haemo-Chromatosis HFE Genotype	AOTB	2 x Lavender / EDTA / whole blood	2 ml	Wessex Regional Genetics	4 weeks	None	Send direct to Genetics
Haemoglobin A1c (HBA1c)	HBAD	Lavender / EDTA / whole blood	2 ml	SDH	1 day	None	

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Haemoglobin Electrophoresis (Variant)	HBEP	Lavender / EDTA / whole blood	4 ml	SDH	1 week	None	
Haemoglobin HPLC (Haemoglobinopathy screening - non antenatal samples)	HBOP	Lavender / EDTA / whole blood	4 ml	SDH	1 week	None	
Haemosiderin - Urine	UHS	Urine taken either into a Sarstedt Monovette or Sterilin specimen container.	10ml	SDH	24 hours	None	
Haptoglobin	HAP	Gold / serum	200 uL	Southampton - Immunology	< 1 day	None	Below -20C
HCG (Total)	HCG	Gold / serum	2 ml	SDH	1/2 day	None	
HDL Cholesterol	LIP	Gold / serum	2 ml	SDH	1/2 day	None	
Heavy Metal Screen	AOTB	Navy / Trace	0.5 ml	Southampton - Biochemistry	10 working days	None	Below -20C
Heparin Induced Thrombocytopenia (HIT)	HI3D	Yellow SST	6ml	H&I NHSBT Filton	7 working days	None	
HFE Genotype - also see Haemo-Chromatosis	AOTB						
Hirsutism - Hormone Profile (includes FSH, LH, Oestradiol, Prolactin, Testosterone, SHBG, FAI)	HIRS	Gold / serum	2 ml	SDH		None	
Histone Antibodies	HIST	Gold / serum	200 µL	Southampton - Immunology	10 working days	None	Below -20C
HLA B*57:01	HI3F	Lavender / EDTA / whole blood	4 ml	Tooting - NHSBT	7 days	None	
HLA B27 (screen)	27BD	Lavender / EDTA / whole blood	4.5 ml	Southampton - Immunology	13 days	None	

HLA DQ2: DQ8 (HLA DQA1 & B1)	HI3F	Lavender / EDTA / whole blood	4 ml	Tooting - NHSBT	7 days	None	
HLA DR2	HI3F	Lavender / EDTA / whole blood	6 ml	NHSBT Filton	7 working days	None	
HLA Specific antibody testing	HI3F	Yellow SST	6ml	H&I NHSBT Filton	7 working days	None	
HLA typing Class I	HI3F	Pink EDTA	6ml	Tooting - NHSBT	5 working days	None	
HLA Typing Class II	HI3F	Pink EDTA	6ml	Tooting - NHSBT	5 working days	None	
HLA-Coeliac	HI3F	Pink EDTA	6ml	Tooting - NHSBT	5 working days	None	
HLA-HFE	HI3F	Pink EDTA	6ml	H&I NHSBT Filton	5 working days	None	
HLA-Narcolepsy	HI3F	Pink EDTA	6ml	Tooting - NHSBT	5 working days	None	
Homocysteine	HOM	Lavender / EDTA plasma / (on ice)	200 µL	BRI - Biochemistry	2 week	Samples collected onto crushed ice and then separated within 30 minutes.	Below -20C
HVA/VMA	UHVA	Random Urine	minimum 100 µL	Southampton - Chromatography	5 days	Room Temperature	
Hyaluronic acid	HYAL	Gold / serum	200 uL	Southampton - Biochemistry	5 working days	Store at -20°C	Below -20C
IgA Deficiency/Antibodies		2 x Pink EDTA	2 x 6ml	RCI NHSBT Filton	7 working days	Please ship samples at RT. For postage, packaging must comply with the Carriage and Packaging of Dangerous Goods Act. Samples must be labelled, dated and signed by the person taking them. Addressograph labels are not acceptable unless demand printed label use agreement exists. Samples must be fresh enough at venepuncture to allow NHSBT testing within 7 days of venepuncture	
IgE (Allergen Specific) RAST	SRAS	Gold / serum	50 µL per allergen	Southampton - Immunology	5 working days	None	Below -20C
IgE (TOTAL)	IGE	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C

IGF-Binding Protein 3 (IGF-BP3)	IBP3	Gold / serum / (sample to lab ASAP)	200 µL	Guildford	5 days	First class post	
IGF1 (Insulin like growth factor)	IGF-1	Gold / serum	200 uL	Southampton - Biochemistry	5 working days	Haemolysed samples are unsuitable for analysis	Below -20C
IgG Subclasses (IgG4 only)	IGG4	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Immunofixation Serum	FIXE	Gold / serum	2 ml	SDH	5 days	None	
Immunofixation Serum (D,E)	AOTI	Gold / serum	1 ml	St Georges	2-4 days	None	
Immunofixation Urine (D,E)	DEFU	EMU or random urine	30 ml	St Georges	3-5 days	None	
Immunofixation Urine	FIXU	EMU or random urine	5 ml	SDH	5 days	None	
Immunoglobulins only (G, A, M)	IGS	Gold / serum	2 ml	SDH	1/2 day	None	
Infant Autoimmune Neutropenia	HI3E	Yellow SST + Pink EDTA	2 x 2ml	H&I NHSBT Filton	14 working days	Neutrophil count MUST be <2 x 109/L	
Infectious Mononucleosis Slide Test	IM	Lavender / EDTA / plasma	500 µl	SDH	1 day	None	
Infliximab (includes serum Infliximab, and Infliximab Antibody when appropriate)	INF	Gold / Serum	300 µL	Royal Devon and Exeter Hospital	10 working days	First class post at room temperature	
Inhibin	INH	Gold / serum		Sheffield - Immunology & PRU	14 working days	First class Post	
INR - not for Warfarin monitoring	CS	Blue / citrate	4.5 ml	SDH	4 hours	None	
Insulin (Fasting)	INS	Gold / serum / (sample to lab ASAP)	500 uL	Southampton - Biochemistry	5 working days	Within 2 hours of being drawn , 500µl of sample should be separated and frozen at -20°C	Below -20C
Insulin Antibodies	AOTI	Gold / serum / (on ice)	100 µL	Guildford	1 week	First class post	
Intrinsic Factor Antibody	IFA B	Gold / serum	200 µL	Southampton - Immunology	10 working days	None	Below -20C
Iron	IRNS	Gold / serum		SDH	1/2 day	None	

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JAK2	MPN	2 x Lavender / EDTA / whole blood	2 ml	Wessex Regional Genetics	3 weeks	None	Send direct to Genetics
Jo-1 Antibody	ENAQ	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
L/D Amphetamine Isomer Ratio (see Amphetamine L/D Isomer ratio)							
Kleihauer(screen only)	KLEI	Pink / EDTA	6 ml	SDH	1/2 day	None	
Lactate	LAC	Grey / fluoride plasma / (on ice)	2 ml	SDH	1/2 day	Contact lab before taking sample. Immediate results.	
Lactate (CSF)	CLAC	Grey / CSF / (on ice)		SDH	1/2 day	Contact lab before taking sample.	
Lactate Dehydrogenase – LDH (Total)	LDH	Gold / serum	2 ml	SDH	1/2 day	None	
Lamotrigine	LAM2	Lithium heparin / plasma Gold / serum	200µl	Epilepsy Society, Chalfont St. Peter	3 working days	Gold / serum is acceptable if taken off of the gel immediately after separation.	
LDL	LIP	<i>Derived test</i>	2 ml	SDH	1/2 day	None	
Lead (whole blood)	PB	Navy/Trace or Lavender/EDT A blood	0.5 ml	Southampton - Biochemistry	6 working days	None	2-8C (Fridge)
Lead (24HR Urine)	ULE2	24 hour urine	24 hour urine collection	Southampton - Trace Metals	5 working days		
Lead (Lead/Creatinine Ratio)	UPB	Random urine	5 ml	Southampton - Trace Metals	5 working days		
Lead (Other)	ZPB	Fluid	5 ml	Southampton - Trace Metals	5 working days		
Leptin	AOTB	Lith. Hep / plasma Gold / serum	250µL	Cambridge	28 days	Store separated serum or plasma frozen Dry Ice Courier	
Levetiracetam	LEVE	Lithium heparin / plasma Gold / serum	200µl	Epilepsy Society, Chalfont St. Peter	3 working days	Gold / serum is acceptable if taken off of the gel immediately after separation.	

Lipase	LIPASE	Gold / serum	200ul	Synnovis HUB – Blackfriars Road, London	2 weeks		Below -20C
Lipoprotein (a)	LIPA	Gold / serum	1 ml	Cardiff - University Hospital of Wales	7 working days	Can be stored at 2-8C for 3 days and can be transported at this temperature. Send frozen if longer than 3 days.	
Liver Blot (UHS)	LIVUHS	Gold / serum	6 ml	Southampton - Immunology	10 days		
Full lipid profile (includes Total Chol, HDL, Non-HDL Chol, Chol:HDL Ratio, LDL & Triglycerides)	LIP	Gold / serum + grey / fluoride	2 ml	SDH	1/2 day	None	
Lithium	LI	Gold / serum (12 hr post dose)	2 ml	SDH	1/2 day	None	
Liver Profile (LFT) - includes Albumin, ALP, ALT, Total Protein and Total Bilirubin	LFT	Gold / serum	2 ml	SDH	1/2 day		
Liver & Bone Profile - includes Albumin, ALP, ALT, Total Protein, Total Bilirubin, Calcium, Adjusted Calcium and Phosphate	LCAP	Gold / serum	2 ml	SDH	1/2 day	None	
LKM Antibody (Liver, Kidney Microsomal)	LKS	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Lupus Anticoagulant Screen	LUPUS	2 x Blue / citrate + 1 x Gold / serum	2 x 4.5 ml	SDH	3 days	Samples to be spun and plasma frozen ASAP if not testing the same day.	
Luteinising Hormone - LH	LH	Gold / serum	2 ml	SDH	1/2 day	None	
Lysosomal acid lipase	AOTI	EDTA whole blood / Dried blood spot		Glasgow - QEUIH - Neuroimmunolog y	6 weeks		Room Temp
Macroprolactin Screen	MACR	Gold / serum	2 ml	SDH	7 days	None	
Magnesium	MG	Gold / serum	2 ml	SDH	1/2 day	None	

Magnesium	24MG	24 hr urine (plain)		SDH	1 day	None	
Magnesium	UMG	Random urine	5 ml	SDH	2 day	None	
Malarial Parasite Rapid Test	MP	Lavender / EDTA / whole blood	0.5 ml	SDH	4 hours	Blood film and Malarial parasites to be requested alongside, URGENT	
Malarial Parasites	MP	Lavender / EDTA / whole blood	4 ml	SDH	1 day	Send samples immediately to the laboratory following collection, within 24 hours. To be processed urgently.	
Manganese (24HR Urine)	UMA2	Collect into 2.5L plastic bottles with no preservative	20mL sterilin universals	Southampton - Trace Metals	5 working days	Collect into 2.5L plastic bottles with no preservative and aliquot into 20mL sterilin universals. Stored at 4 oC	
Manganese (Manganese/Creatinine Ratio)	UMAU	Random urine	5 ml	Southampton - Trace Metals	5 working days		
Manganese (Other)	ZMN	Fluid	5 ml	Southampton - Trace Metals	5 working days		
Manganese (whole blood)	MN	Greiner Trace Element Na Hep tube (Royal blue top) Teklab Hep TE tube	6 ml 2 ml	Southampton - Trace Metals	5 working days		
Mannose Binding Lectin	AOTI	Gold / serum		Sheffield - Immunology & PRU	7 working days		
Mastocytosis (Tryptase)	MASTC	Gold / serum when well and unwell	6 ml	Southampton - Immunology	5 days	None	
Menopause Screen - (includes FSH, LH, only) <i>Additional hormones must be requested using</i>	MENO	Gold / serum	2 ml	SDH		None	

their individual hormones							
Mercury (whole blood)	HG	Navy / Trace / w.blood	0.5 ml	Southampton - Biochemistry	5 working days	Adults: Whole-blood samples need to be collected into Trace Element specific tubes, these include Greiner Vacuettes (Sodium heparin for Trace Elements Analysis) Paeds: 2ml Teklab Lithium heparin tubes. Stored at 4 oC Mon – Fri. Keep in dark.	2-8C (Fridge)
Mercury (random urine)	UHG	Random urine	0.5 ml	Southampton - Trace Metals	5 working days	Mon – Fri. Keep in dark.	
Mercury/creat ratio (Random Urine)	UHG	Random urine - 'Sterilin' Universal container	20 ml	Southampton - Trace Metals	5 working days	Mon – Fri. Keep in dark.	
Plasma Metanephries	PMET2	Lithium Heparin	1ml	Southampton - Biochemistry	Within 2 weeks	Sample must be transported to the laboratory on ice within 30 mins of collection. For external laboratories, collected on ice and separate within 30mins, sample must be stored and transported frozen.	Below -20C
24 hour Urine Metanephries	24MET	24 hr urine acidified with glacial acetic acid	A minimum of at least 2 mL of a 24 hour collection.	Southampton - Biochemistry	5 working days excl. Bank Holidays	Transported at 2-8C	Below -20C
Methotrexate (High Dose)	MTX	Gold / serum	500 uL	Southampton - Biochemistry	4 hours (excludes transport time)	Assays are usually arranged by agreement with this department, and results are always telephoned to the ward on the day of receipt. Samples will normally be taken at 48, and 72 hrs after start of infusion (blood may be collected up to 8hrs before these theoretical times for convenience). A 24 hr level will only be done if the patient is on a	Always send urgently

						methotrexate protocol where the 24 hr level is used to modify the level of folinic acid rescue and therefore directly affects the management of the patient. The ward will contact us if this is the case. A further sample may be sent if the level has not dropped below 0.05mmol/l at 72 hrs	
Methylmalonic Acid	MMA2	SST/plasma EDTA Minimum 0.5mL	Minimum 0.5mL	Synnovis HUB – Blackfriars Road, London	10 working days	Separated plasma/serum can be sent by first class post	
Mucopoly Saccharides (MPS screen)	AOTB	Random urine	5 ml	BRI - Metabolic, Neuroendocrine and Nutrition	1-2 weeks	Refrigerate after collection, send as soon as possible. If delay in sending advise to freeze.	
Multiple Sclerosis Screen (See Oligoclonal bands)							
MYD88	AOTH	2 x Lavender / EDTA / whole blood	2 ml	Wessex Regional Genetics	3 weeks	None	Send direct to Genetics
Myeloperoxidase antibody	HMPO	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Myositis Screen	MYO	Gold / serum		Southampton - Immunology	20		Below -20C
Neonatal Allo-immune Neutropenia (NAIN)	H13E	Mother - Yellow SST + Pink EDTA Father - Yellow SST + Pink EDTA Baby - Paed Pink EDTA	Mother - 6 ml + 6 ml Father - 6 ml + 6 ml Baby - 1 ml	H&I NHSBT Filton	14 working days	None	
Neuron Specific Enolase (NSE)	NSEU	Gold / serum	200 uL minimum	Southampton - Biochemistry	24 hours	URGENT Special instructions: Spin and separate within 1 h of collection. ITU requests ONLY. Non ITU requests MUST be vetted by Duty	

						Biochemist. Store refrigerated prior to sending, send and mark as URGENT Mon-Fri (if received on weekend, send Monday am).	
Neutrophil Function Test (Neutrophil Oxidative Burst)	NEUTF	Green /Lithium heparin / whole blood	3 ml	Southampton - Immunology	9 days	None	
NIPT Rh D Screening	FDNA	Pink / EDTA	6ml	IBGRL NHSBT Filton	10 working days	NHSBT Transport	
NMDA receptor Antibodies (Fixed)	NMDA	Gold / serum	1 ml	Oxford Immunology	7 days	None	
Nucleosome antibodies	NUCL	Gold / serum	200 µL	Southampton - Immunology	10 working days	None	Below -20C
Oestradiol	OEST	Gold / serum	2 ml	SDH	1/2 day	None	
Olanzapine	AOTB	Lavender / EDTA / plasma	4 ml	King's College Hospital - Toxicology Unit	5 working days	Gel tubes must be avoided. Please refrigerate (if possible) if not sending immediately. Send by first class post.	Below -20C
Oligoclonal Bands	OLIG	CSF (plain) + matched serum	250 µl in each tube	Queens Sq London	7 working days	1st class post, sample not haemolysed	
Oligosaccharides (urine)	AOTB	Random urine (plain)	3 ml	Manchester Centre for Genomics	3 working weeks	To reach the laboratory within 72 hours of sampling	
Organic Acids	UORG	Random urine	3 ml	Southampton - Biochemistry	10 working days (urgent by arrangement)	Samples taken at the time of an acute illness are the most helpful. Store at -20°C	Below -20C
Osmolality (serum)	OSM	Gold / serum	2 ml	SDH	1 day	None	
Osmolality (urine)	UOSM UNA	Random urine		SDH	1 day	None	
Osteocalcin	AOTB	EDTA plasma	0.5 ml	Norfolk & Norwich	2 weeks	EDTA plasma must be separated and frozen immediately, and transported frozen.	Below -20C
Ovarian Cell Antibodies	OVAS	Gold / Serum	2 ml	Sheffield - Immunology & PRU	10 days		
Oxalate - plasma	OX	EDTA Plasma	2 mls	University College Hospital	10 working days	Freeze sample and send to lab frozen	

Oxalate Excretion (24HR)	24OX	Collect into 2.5L plastic bottles with no preservative	20mL sterilin universals	Southampton - Trace Metals	5 working days	Collect into 2.5L plastic bottles with no preservative and aliquot into 20mL sterilin universals. Stored at 4 oC	
Oxalate Excretion (Paediatrics)	UOX	Random Urine	20ml	Southampton - Biochemistry	6 days	20mL sterilin universals. Stored at 4 oC	2-8C (Fridge)
Faecal (Pancreatic) Elastase	FEL	Faeces	5 g (solid if possible)	Southampton - Biochemistry	10 working days	A random formed stool specimen is required. E1 concentrations are lower in watery stool samples. Samples are stable at room temperature for 5 days. Samples are stable for 1 year at -20oC	2-8C (Fridge)
Pancreatic Polypeptide – Fasting - See Gut Hormones	GUT						
Paracetamol	PS	Gold / serum	2 ml	SDH	1/2 day	None	
Paraneoplastic Antibodies (Hu, Ri, Yo)	UPNA	Gold / serum	1 ml	Southampton - Immunology	15 days		Below -20C
Paraquat Qualitative	AOTB	Random urine collected into a plain (white top) universal container.	1 ml	Birmingham - Sandwell	1 day (excluding transport time)	1 mL of random urine collected into a plain (white top) universal container. Please ensure samples are taken a minimum of 1hour post ingestion. Samples should be stored at 4°C prior to sending.	
Parathyroid Hormone (PTH)	PTH	Lavender / EDTA Plasma and Paed Lithium Heparin Plasma	2 ml	SDH	1/2 day	None	
Paroxysmal Nocturnal Haematuria (PNH)	PNHS	Lavender / EDTA / whole blood	3 ml	Southampton - Immunology	9 days	None	2-8C (Fridge)
Partner Testing (Ante natal)	BTOP	Lavender / EDTA / whole blood	3 ml	SDH			

Paternal Phenotyping	NRCI	Pink EDTA	6ml	RCI NHSBT Filton	7 working days	Please ship samples at RT. For postage, packaging must comply with the Carriage and Packaging of Dangerous Goods Act. Samples must be labelled, dated and signed by the person taking them. Addressograph labels are not acceptable unless demand printed label use agreement exists. Samples must be fresh enough at venepuncture to allow NHSBT testing within 7 days of venepuncture	Room Temp
Pemphigoid Antibody	SKA	Gold / serum	200 µL	Southampton - Immunology	10 working days	None	Below -20C
Pemphigus Antibody	SKA	Gold / serum	200 µL	Southampton - Immunology	10 working days	None	Below -20C
Perampanel (Fycompa)	AOTB	Gold / serum	200µl	Epilepsy Society, Chalfont St. Peter	3 working days	1st class post at room temperature meeting post office regulations for pathological specimens	
Phenobarbital - see Phenobarbitone	PHEB						
Phenobarbitone	PHEB	Gold / serum or Lith Hep / plasma	500 µL	Southampton - Biochemistry	1 working day	Collect trough level	Below -20C
Phenylalanine (See amino acids SERUM)	AA						
Phenylalanine on Blood Spots	BSPHEN	National heel prick card 4 spots blood	2 full blood spots	Portsmouth	48 hours	Collected between 5-8 days old	Room Temp
Phenytoin	PHNY	Gold / serum / (pre-dose)	2 ml	SDH	1/2 day	None	
Phosphate	LCAP BP	Gold / serum	2 ml	SDH	1/2 day	None	
Phosphate	24P	24 hr urine	2 ml	SDH	1 day	None	
Phosphate / Creatinine Clearance Ratio		Random urine (fresh must send matched serum)		SDH	1 day		

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Phospholipase A2 Receptor Antibodies	PLA2	Gold / serum	1 ml	Southampton - Immunology	10 days		
PKU Neonatal Screen	Please forward sample directly to Portsmouth for neonatal screening (DO NOT book into Winpath)	Blood spots	2 full blood spots	Portsmouth			Room Temp
Placental Alkaline Phosphatase (PLAP)	PLAP	Gold / serum		Sheffield - Immunology & PRU	4-5 weeks	Mon- Thur. Seminomas/other germ cell tumours ONLY	
Plasma Viscosity	AOTH	Lavender / EDTA / plasma	4 ml	Bath	1 day	None	
Platelet Function Analysis (PFA)	PFA 100	2 x Blue / citrate	2 x 4.5 ml	SDH	1 day	Samples to be taken straight to the Coag section, DO NOT SPIN.	
Platelet Nucleotide Analysis	AOTH	Blue / citrate	3-4 ml	St Thomas' - centre for haemophilia & thrombosis	2 months	To be received within 2 hours of venepuncture with minimal agitation	
Platelet Transfusion Refractoriness	HI3A	Yellow SST + Pink EDTA	6 ml + 6 ml	H&I NHSBT Filton	7 working days	None	
PNH screen	PNHS	Lavender / EDTA	4.5 ml	Southampton - Immunology	5 working days	<72 hrs old Monday – Friday 12:00 pm	2-8C (Fridge)
Porphobilinogen (PBG)	AOTB	Random urine, Cardiff Porphyria Service Dept. (Protect from light and keep in the refrigerator) Do not centrifuge.	3ml	Cardiff - Porphyria Service Dept.	10 working days	Overnight or up to 4 days at 4C. Protected from light. Guaranteed overnight or next day delivery.	

Porphyrins (Quantitative) (Blood)	POR	Lavender/ EDTA/ plasma / (kept dark)	2 ml	Cardiff - Heath Park	10 working days	Overnight transport at room temperature, protected from light. Samples exposed to light for >6hrs should not be assayed. Discard sample and request repeat. Samples not protected from light but received in the lab <6hrs after collection can be assayed. A comment must be added to the request card to be sent to Cardiff stating exposure to light has occurred. This will be included in the report and advice given regards the interpretation of results.	
Porphyrins (Quantitative) (Faecal)	AOTB	Faeces / (kept dark)	5 grams	Cardiff - Heath Park	15 working days	Overnight transport at room temperature, protected from light. Samples exposed to light for >6hrs should not be assayed. Discard sample and request repeat. Samples not protected from light but received in the lab <6hrs after collection can be assayed. A comment must be added to the request card to be sent to Cardiff stating exposure to light has occurred. This will be included in the report and advice given regards the interpretation of results.	Faecal sample 2-8C (fridge)
Porphyrins (Quantitative) (Urine)	UPOR	Random urine (kept dark) preferably early morning sample	5-10 ml	Cardiff - Heath Park	10 working days	Overnight transport at room temperature, protected from light. Samples exposed to light for >6hrs should not be assayed. Discard sample and request repeat. Samples not protected from light but received in the lab <6hrs after collection can be assayed. A	

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						comment must be added to the request card to be sent to Cardiff stating exposure to light has occurred. This will be included in the report and advice given regards the interpretation of results.	
Post-transfusion Purpura (PTP)	HI3D	Yellow SST + Pink EDTA	6 ml + 6 ml	H&I NHSBT Filton	7 working days	None	
Potassium	RE	Gold / serum	2 ml	SDH	1/2 day	None	
Potassium	24E	24 hr Urine (plain)		SDH	1 day	None	
Potassium	UK	Random Urine		SDH	1 day	None	
Potassium		Pleural / wound / drain fluids		SDH	1/2 day	None	
PP (Pancreatic polypeptide) – Fasting - See Gut Hormones	GUT						
Procalcitonin	PCT	Gold / serum or Lith Hep / plasma	500µL	Basingstoke - Biochemistry	1 working day	Same day receipt	
Procollagen Extension Peptide (P1NP)	P1NP	Gold / serum	0.5ml	Norfolk & Norwich	2 weeks		
Procollagen 3N Terminal Peptide (P3NP)	P3NP	Gold / serum	200 uL	Southampton - Biochemistry	5 working days	Store at -20°C	Below -20C
Progesterone	PROG	Gold / serum	2 ml	SDH	1/2 day	None	
Prolactin	PROL	Gold / serum	2 ml	SDH	1/2 day	None	
Prolactin Series - book in samples individually for Prolactin. NB time of collection (and number in series if available) must be recorded for each sample		Gold / serum	2 ml	SDH	1/2 day	Laboratory Medicine Salisbury District Hospital Odstock Road Salisbury, Wilts SP2 8BJ	01722 336262
Prostate Specific Antigen (PSA) (Total)	PSA	Gold / serum	2 ml	SDH	1/2 day	None	
Protein	24TP	24 hr urine (plain)		SDH	1 day	None	

Protein / Creatinine Ratio (PCR)	UPCR	Random urine		SDH	1 day	None	
Protein C	TS	3 x Blue / citrate	2 x 0.5 ml aliquots	SDH	On request or 28 working days	Freeze aliquot upon receipt	
Protein S (Free Protein S)	TS	3 x Blue / citrate	2 x 0.5 ml aliquots	SDH	On request or 28 working days	Freeze aliquot upon receipt	
Protein (Body fluids - not CSF)	FTP	Pleural / wound / drain fluids /ascites		SDH	1/2 day	None	
Protein (CSF)	CTP	CSF		SDH	1/2 day	None	
Proteinase 3 (Pr3) Antibody	HPR3	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Prothrombin Gene Variant	AOTH	Lavender / EDTA / whole blood	2 ml	Wessex Regional Genetics	4 weeks	None	Send direct to Genetics
PTH-Related Peptide	AOTB	Special tube, ice		Liverpool	2-3 weeks	Discuss with Duty Biochemist if request received. Send frozen with large ice pack by 1st Class Post.	
Purine Screen (urine) (Endogenous)	AOTB	Spot urine (a few crystals of thymol) if unavailable, plain urine tube	2.5 ml	Synnovis Hub – Blackfriars Road, London	3 weeks	1st class post	
Purine Screen (blood)	AOTB	Lavender / EDTA / whole blood	2-5 ml	Synnovis Hub – Blackfriars Road, London	3 weeks	1st class post to lab within 3 days	2-8C (Fridge)
Purine Studies	AOTB	EDTA whole blood + Li hep whole blood + plasma+ 24 hr urine	2.5 ml	Synnovis Hub – Blackfriars Road, London	3 weeks	1st class post	
Renal Profile	RE	Gold / serum	2 ml	SDH	1/2 day	None	

Renin	RENI	Lavender / EDTA / plasma / (to lab ASAP)	500 µL	Southampton - Biochemistry	N/A	EDTA plasma, spun & plasma frozen within 30 minutes. Store at -70 C. If there is gross haemolysis or lipaemia the sample should not be analysed for Renin	Below -20C
Renin / Aldosterone Ratio (Conns Screen)	ALDOR	2 x Lavender plasma to lab ASAP+ gold / serum	500 µL	Southampton - Biochemistry	5 working days	EDTA plasma is required if Renin is to be analysed on the same sample. Stored at -70 C. If Aldosterone only is required serum, SST or lithium heparin plasma are suitable for analysis. If there is gross haemolysis or lipaemia the sample should not be analysed for aldosterone	Below -20C
Reticulocytes	RETIC	Lavender / EDTA / whole blood	2 ml	SDH	1/2 day	None	
Rh/Kell Phenotype	RHK	Pink / EDTA	6ml	SDH	4 hours	None	
Rheumatoid Factor	RF	Gold / serum	2 ml	SDH	1/2 day	None	
Rivaroxaban	RIV	3 x Blue / citrate	2 x 0.5 ml aliquots	Southampton - Coagulation	On request or 5 working days	Send frozen aliquots	Can be dispatched fresh or as frozen aliquots. Plasma minimum temp -20C frozen
RN Antibody	ENAQ	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Salicylate	PS	Gold / serum	2 ml	SDH	1/2 day	None	
Salivary Gland Antibody	AOTI	Gold / serum	2 ml	Sheffield - Immunology & PRU	10 days	None	
Save Sample	CHEM						
ScI70 Antibody	ENAQ	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Scleroderma screen	SCLER	Gold / serum		Southampton - Immunology			Below -20C

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Selectivity Of Proteinuria	AOTB	Random urine (fresh must send matched serum)	3 ml urine and 1 ml serum	St Georges	3-5 days	Discuss with Duty Biochemist	
Selenium (Plasma)	SE	Navy / Trace (adults) or Trace (paeds) plasma	6 ml	Southampton - Trace Metals	6 working days	None	
Selenium (24HR Urine)	USE2	Collect into 2.5L plastic bottles with no preservative	20mL sterilin universals	Southampton - Trace Metals	5 working days	Collect into 2.5L plastic bottles with no preservative and aliquot into 20mL sterilin universals. Stored at 4 oC	
Selenium (Other)	ZSE	Fluid	5 ml	Southampton - Trace Metals	6 working days		
Selenium (Selenium/Creatinine Ratio)	USEU	Random Urine	5 ml	Southampton - Trace Metals	6 working days		
Sex Hormone Binding Globulin (SHBG)	SHBG	Gold / serum	2 ml	SDH	1/2 day	None	
Sickle Cell And Thalassaemia Screening (Antenatal)	HPLC	Lavender / EDTA / whole blood	4 ml	SDH	3 days	None	
Sickle Screen	HBS	Lavender / EDTA / whole blood	2 ml	SDH	1 week	None	
Sirolimus (Rapamune)	AOTB	Lavender / EDTA / blood (pre-dose)		King's College Hospital	1 day	Trough sample (taken just prior to next dose) is recommended, or at least 20 hours post dose.	2-8C (Fridge)
Sodium	RE	Gold / serum	2 ml	SDH	1/2 day	None	
Sodium	24E	24 hr urine (plain)		SDH	1 day	None	
Sodium	UNA	Random urine	5 ml	SDH	2 day	None	
Soluble CD25	AOTI	Gold / serum	1ml	GOSH - Immunology		Send next day. If arrives on Friday can be stored in fridge until Monday.	
Soluble Transferrin Receptor	STR	Gold / serum	>0.5 ml	Southampton - Haematology	< 1 month	Plasma / serum ideally separated and frozen but separated is the most important	

Somatomedin C - see IGF-1	IGF-1						
Somatostatin - See Gut Hormones	GUT						
Sp100 antibodies - See Liver Blot	LIVUHS						
SS-A (Anti-Ro)	ENAAQ	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
SS-B (Anti-La)	ENAAQ	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Steroid Profile (urine)	USTER	24 Hour urine / Random urine	10ml for adults 2ml minimum for paediatrics	Synnovis Hub – Blackfriars Road, London	21 Days		Below -20C
Stone Analysis	STONE	Calculus (renal, salivary, biliary)		Southampton - Biochemistry	10 days		
Sulphonyl Urea	AOTB	Gold serum / lithium heparin plasma	0.5 ml	Royal Surrey County Hospital	7 days	If sending from external laboratory: store frozen unless sending immediately. Samples can be sent first class post.	
Synacthen Test	SYN	2x Gold / serum 0, 30 min after 250 ug im Synacthen		SDH	1/2 day	None	
T and B cell Lymphocyte Subsets - See Cell Markers: Lymphocyte Markers	SCMR						
Tacrolimus (FK506)	TACROP	Lavender / EDTA/ blood (12 hr post dose)	200 µL	Portsmouth	48 hours	Sample not viable after 7 days. Clotted samples cannot be tested	2-8C (Fridge)
Testosterone (Total – Female) - see FAI	FAI	Gold / serum	2 ml	SDH	1/2 day	None	

Testosterone (Total – Male)	TEST	Gold / serum	2 ml	SDH	1/2 day	None	
Testosterone (by Mass Spec)	MTEST	Gold / serum	2 ml	Southampton - Biochemistry		None	
Tetrahydro Biopterins	AOTB	Blood spots (screen) or green Lith.Hep / plasma	6 x 10mm BS	Birmingham - Neonatal	15 working days	Store frozen prior to shipment	Room Temp
Theophylline	THEO	Gold / serum	2 ml	SDH	1/2 day	None	
Thiopurine Methyl Transferase (TPMT)	TPMT	Lavender / EDTA / whole blood	2 ml	Black Country Pathology – Sandwell General Hospital	10 working days	1st class post without cooling	2-8C (Fridge)
Thrombin Time Ratio	TT	Blue / citrate	4.5 ml	SDH	1 day	None	
Thrombophilia Screen	TS	4 x Blue / citrate + 1 x Gold / serum	4 x 4.5 ml	SDH	2 weeks	Samples to be spun and plasma frozen.	
Thyroglobulin	TGB	Gold / serum	250 µL	Southampton - Biochemistry	6 working days	None	Below -20C
Thyroglobulin Antibodies	THYGAB	Gold / serum	250 µL	Southampton - Biochemistry	6 working days	None	Below -20C
Thyroid Antibodies	RTPO	Gold / serum	2 ml	SDH	5 days	None	
Tissue Trans-Glutaminase Antibody (IgG)	HTTGG	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Tissue Trans-Glutaminase Antibody (IgA)	HTTG	Gold / serum	200 µL	Southampton - Immunology	5 working days	None	Below -20C
Tissue Type	HI3B	Various		NHSBT Filton	1 month or more		
Tobramycin - refer to Microbiology for testing							
Total Protein	LCAP BP	Gold / serum	2 ml	SDH	1/2 day	None	
Trace Metals Screen (Mn, Cu, Se, Zn) - - Please request required trace metals using individual codes							

Transferrin	IRNS	Gold / serum	2 ml	SDH	1/2 day	None	
Transferrin Saturation (including Iron)	IRNS	Gold / serum	2 ml	SDH	1/2 day	None	
Triglycerides	TG	Gold / serum	2 ml	SDH	1/2 day	None	
Trimethylamine (Urine)	AOTB	24 hr urine (HCl)	10 ml aliquot	Sheffield Children's Hospital	8 weeks	24 hour urine collected into acid. pH adjust to < pH 2.	
Triple Islet cell Antibody Screen - includes Anti GAD, Anti Islet cell and Zinc Transporter 8 antibodies	ICAT	Gold / serum	500 µL	Royal Devon and Exeter Hospital	2 weeks	First class post, room temperature	
Troponin T	TROP	Gold / serum send separate sample if possible.	2 ml	SDH	1/2 day	None	
Tryptase	MASTC	Gold / serum	6 ml	Southampton - Immunology	5 days	None	
Tryptase (Systemic Mastocytosis)	MASTC	Gold / serum When well and unwell	6 ml	Southampton - Immunology	5 days	None	
Tryptase Anaphylaxis Protocol	MASTC	Gold / serum immediately and then 1-2 hrs later	6 ml	Southampton - Immunology	5 days	None	
TSH	TSH	Gold / serum	2 ml	SDH	1/2 day	None	
TSH – Neonatal	BSTSH	Blood spots	2 full blood spots	Portsmouth	3 days	Collected between 5-8 days old	Room Temp
TSH Receptor Antibody	TRABS	Gold / serum	2 ml	Sheffield - Immunology & PRU	5 days	None	
Tyrosine (See amino acids SERUM)	AA						
Urate	UA	Gold / serum	2 ml	SDH	1/2 day	None	
Urate	24UA	24 hr urine (plain)		SDH	1 day	None	
Urate	UUA	Random urine	5ml	SDH	2 day	None	
Urea	RE	Gold / serum	2 ml	SDH	1/2 day	None	

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Urea	24E	24 hr urine (plain)		SDH	1 day	None	
Urea	UU	Random urine	5 ml	SDH	1 day	None	
Urea	FU	Wound drain fluids		SDH	1/2 day	None	
Valproate (Valproic Acid)	VALP	Gold / serum / (2 hours post dose)	200 µl	Poole	2 days (can be done urgently if required)	Serum (separated)	
Vancomycin	VANC	Gold / serum, green / lithium heparin pre-dose, post dose and random sample.	2 ml	SDH	1/2 day	None	
Vascular Endothelial Growth Factor (VEGF)	VEGF	Gold / Serum	500 µl	Queens Sq London	21 working days	1st class post, sample not haemolysed	
Vasculitis Screen - See ANCA	AAV						
Very Long Chain Fatty Acids	VLCF	Lith. Hep plasma (gold / serum or EDTA plasma also acceptable)	0.5ml	Bristol Southmead	21 days	None	Below -20C
Vigabatrin	AOTB	Lithium heparin / plasma Gold / serum	200µl	Epilepsy Society, Chalfont St. Peter	3 working days		
VIP – Fasting - See Gut Hormones	GUT						
Vitamin A – Fasting	VITA	Gold / serum (kept dark)	200 µl	Southampton - Biochemistry	7 working days	Recommend against delaying sample transport and receipt by laboratory beyond four days.	Below -20C

Vitamin B1	AOTB	Green /Lithium heparin / whole blood	1 ml	Glasgow	10 days	Light sensitive, wrap in tin foil. Contact lab if delivery is outside 72 hours from collection.	
Vitamin B12	B12	Gold / serum	2 ml	SDH	1/2 day	None	
Vitamin B2	AOTB	Green /Lithium heparin / whole blood	1 ml	Glasgow	10 days	Light sensitive, wrap in tin foil. Contact lab if delivery is outside 48 hours from collection.	
Vitamin B6	AOTB	Green /Lithium heparin / whole blood	1 ml	Glasgow	10 days	Light sensitive, wrap in tin foil. Contact lab if delivery is outside 48 hours from collection.	
Vitamin C	AOTB	Special collection tubes	5 ml	Glasgow	10 days	If delivery to lab is outside 4 hours from collection, contact lab for handling instructions.	
Vitamin D – 1,25 Di-OH	125VD	Gold / serum / (on ice)	0.5 ml	Norfolk & Norwich	4 weeks	None	Below -20C
Vitamin D – 25 OH	VITD	Gold serum / lithium heparin / (Paed small green)	2 ml	SDH	1/2 day	None	
Vitamin E – Fasting	VITE	Gold / serum (kept dark)	200 µL	Southampton - Biochemistry	7 working days	See above	Below -20C
Vitamin K	AOTB	Gold / serum	1ml	Glasgow	2 weeks	Light sensitive, wrap in tin foil. Send within 48 hours of collection.	
Voltage Gated Calcium Channel Antibody	AOTI	Gold / serum	1 ml	Oxford Immunology	21 days	None	
Voltage Gated Potassium Channel Antibody	VGKC	Gold / serum	1 ml	Oxford Immunology	14 days	None	
Von Willebrand's Activity	VWS	3 x Blue / citrate	4.5 ml	SDH	1 week	To be spun and frozen ASAP if not tested the same day.	
Von Willebrand's Factor Antigen	VWS	3 x Blue / citrate	4.5 ml	SDH	1 week	To be spun and frozen ASAP if not tested the same day.	
Von Willebrand's Screen	VWS	3 x Blue / citrate	4.5 ml	SDH	1 week	To be spun and frozen ASAP if not tested the same day.	
Warfarin Monitoring	WARF	1x Blue / citrate	4.5 ml	SDH	8 hours	None	

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Authorised on: 30 Jul 2026, Authorised by: Sarah Muncaster, Document Unique Reference: 3 136664112, Due for review on: 30 Jul 2027

Author(s): Sarah Muncaster

Warfarin Monitoring - Point of Care	PWAR	Finger prick		SDH	<1 hour	None	
White Cell (WBC) Enzymes	WCE	Lavender / EDTA	3 ml	BRI - Metabolic, Neuroendocrine and Nutrition	3-4 weeks	To reach lab within 24 hours from collection	
White Blood Cells (Fluid)	BFAC	Fluid	5ml	SDH	Same Day		
Xanthochromia Screen CSF Spectro-photometry (?SAH)	XAN	CSF (plain bottle) – PROTECT FROM LIGHT. Do NOT send via air tube		SDH	1/2 day	None	
Zinc (plasma)	ZN	Navy / Trace / plasma (adults) or Trace / plasma (paeds)	0.5 ml	Southampton - Trace Metals	4 working days	None	
Zinc (24HR Urine)	UZI2	Collect into 2.5L plastic bottles with no preservative	20mL sterilin universals	Southampton - Trace Metals	5 working days	Collect into 2.5L plastic bottles with no preservative and aliquot into 20mL sterilin universals. Stored at 4 oC	
Zinc (Other)	ZZN	Fluid	5 ml	Southampton - Trace Metals	5 working days		
Zinc (Zinc/Creatinine Ratio)	UZIC	Random urine	5 ml	Southampton - Trace Metals	5 working days		
Zinc Transporter 8 antibody - Refer to Anti-Gad (glutamic acid decarboxylase) Antibody - see Triple Islet Cell Antibody Screen	ICAT						
Zinc (Protoporphyrin)	AOTB	EDTA plasma - protected from light	5-10 ml	Cardiff - Porphyria Service	10 working days	Overnight or up to 4 days at 4C. Protected from light. Guaranteed overnight or next day delivery.	2-8C (Fridge)

REFERRAL LABORATORIES

LIST OF REFERRAL LABORATORIES	
Laboratory	Address and Telephone
ST BARTHOLOMEW'S LONDON Clinical Biochemistry	Clinical Biochemistry, 4th Floor Pathology & Pharmacy Building, 80 Newark Street, Whitechapel, London, E1 2ES Tel/General Enquiries 02073 777000 x6 1038 Bleep x6 1611 Duty Biochemist
BASINGSTOKE Coagulation	Haemophilia Haemostasis & Thrombosis Lab, Pathology Department, North Hampshire Hospital Basingstoke, Hants, RG24 9NA Haem Secretary 01256 313296 / 313304 Anticoag Clinic 01256313415 Coag Dept. 01256313294 Special Coagulation 01256 313304
BATH Clinical Biochemistry Haematology	Area Central Laboratory, Royal United Hospital, Coombe Park, Bath, BA1 3NG Tel 01225 824714 (Laboratory/results) Tel 01225 824728 (Haematology Laboratory/results) Clinical Advice Line 01225 824050
BIRMINGHAM City hospital	Dr Jonathan Berg, Clinical Chemistry Department, Birmingham City Hospital, Dudley Road, Birmingham, B18 7QH Tel 0121 507 5353 Fax 0121 507 5290
BIRMINGHAM Inborn Metabolic Lab	Department Newborn Screening & Biochemical Genetics, Paediatric Laboratory Medicine, The Birmingham Children's Hospital NHS Trust, Steelhouse Lane, Birmingham, B4 6NH Tel 0121 333 9942
BIRMINGHAM Neonatal Lab	Department Newborn Screening & Biochemical Genetics, Paediatric Laboratory Medicine, The Birmingham Children's Hospital NHS Trust, Steelhouse Lane, Birmingham, B4 6NH Tel 0121 333 9942 Duty Biochemist 0779 5828617
BIRMINGHAM Toxicology Lab	Drugs of Abuse Section (or Toxicology Section), Regional Lab for Toxicology, City Hospital NHS Trust, Dudley Road, BIRMINGHAM, B18 7QH Tel 0121 5074138
BRISTOL (Southmead) Cholinesterase Unit	Cholinesterase Unit, Southmead Hospital, North Bristol NHS Trust, Westbury-on-Trym, Bristol, BS10 5NB Tel 0117 414 8414
BRISTOL (Southmead) Biochemical Genetics Clinical Chemistry	Blood Sciences and Bristol Genetics, Southmead Hospital, North Bristol NHS Trust, Westbury-on-Trym, Bristol, BS10 5NB Tel 0117 414 8346 (Biochem Genetics Lab)

LIST OF REFERRAL LABORATORIES	
BRISTOL (BRI) Chemical Pathology Biochemical Genetics	Department of Clinical Biochemistry, Bristol Royal Infirmary, Queens Building, Level 8, Marlborough Street, Bristol, BS2 8HW Tel 0117 3422040 Metabolic, Neuroendocrine & Nutrition laboratory, Dept of Clinical Biochemistry, Level 8, Queens Building, Bristol Royal Infirmary, Upper Maudlin Street, Bristol, BS2 8HW Tel 0117 3422590 (On call Biochemist direct advice only)
CAMBRIDGE Immunology	Immunology Department, Box 232, Level 4, Addenbrooke's Hospital, Hills Road, Cambridge, CB2 0QQ Tel 0333 1032220 (Help Desk)
CARDIFF Analytical Toxicology Lab	Cardiff Toxicology Laboratories, 4th Floor, Academic Centre, University Hospital Llandough, Penlan Road, Llandough, Vale of Glamorgan, CF64 2XX Tel 02920 716894 or Tel 02920 725349
CARDIFF Medical Biochemistry	Department of Medical Biochemistry & Immunology, University Hospital of Wales, Heath Park, Cardiff, CF14 4XW Tel 029 2074 6255
CHALFONT ST PETER Centre for Epilepsy	Therapeutic Drug Monitoring Unit, Chalfont Centre for Epilepsy, Chesham Lane, Chalfont St Peter, Buckinghamshire, SL9 0RJ Tel 01494 601424 or 601423
CHARING CROSS Medical Oncology Department	The SAS Laboratories, Clinical Biochemistry and Medical Oncology, Charing Cross Hospital, London, W6 8RF Tel 0208 383 3949 General Enquiries/Results 020 3313 5353
DORCHESTER Chemical Pathology	Dorset County Hospital, Williams Avenue, DORCHESTER, DT1 2JY Tel 01305 254331 (Results/Enquiries)
GLASGOW Dept of Clinical Biochemistry	Department of Clinical Biochemistry, Macewen Building, Glasgow Royal Infirmary, Glasgow, G4 0SF Tel 0141 211 4003 / 4
GREAT ORMOND STREET, LONDON	Chemical Pathology Reception, Level 1, Camelia Botnar Building, Great Ormond Street Hospital, Great Ormond Street, London WC1N 3JH Tel 020 7405 9200 (Switchboard) Metabolic Lab x 5225 Enzyme Lab x 6751/1785 Biochemistry x 0415
GUILDFORD Clinical Biochemistry	SAS Peptide Hormone Section, Clinical Laboratory, Royal Surrey County Hospital, Egerton Road Guildford, GU2 7XX Tel 01483 406715

LIST OF REFERRAL LABORATORIES	
HAREFIELD Immunology Department	Immunosuppression Monitoring Service, Heart Science Centre, Harefield Hospital, Hill End Road Harefield, Middlesex, UB9 6JH Tel 01895 828570
INSTITUTE OF CHILD HEALTH LONDON	Biochem/Endo/Metabolism Unit, Institute of Child Health, 30 Guilford Street, LONDON, WC1N 1EH Tel 020 7905 2159
KING'S COLLEGE HOSPITAL, LONDON	Kings College Hospital, IDM Service, Liver Studies, Denmark Hill, London, SE5 9RS Tel 020 32993147
KING'S COLLEGE HOSPITAL, LONDON	Dept of Clinical Biochemistry, King's College Hospital, Bessemer Road, LONDON SE5 9RS Biochemistry 02032 994126 Steroids 02032 994131 Porphyrins 02032 993856 Main Enquiries 02071 888008 Option 1
LIVERPOOL Dept of Clinical Chemistry	Department of Clinical Chemistry, Royal Liverpool University Hospital, Prescot Street, Liverpool L7 8XP Tel 0151 706 4230
NHSBT Histocompatibility and immunogenetics	NHSBT – Bristol Centre 500 North Bristol Park, Northway, Filton, Bristol, BS34 7QH Tel 0117 9217372
NHSBT Histocompatibility and immunogenetics	NHSBT – South Thames 75 Cramer Terrace, Tooting, SW17 0RB Tel 020 3123 8347
NHSBT Red Cell Immunohaematology	NHSBT – Bristol Centre 500 North Bristol Park, Northway, Filton, Bristol, BS34 7QH Tel 0117 9217380 OOH - 0117 9693927
NORFOLK & NORWICH Dept of Clinical Chemistry	SAAS Calcium & Metabolic Bone Assays, NNUH, Colney Lane, Norwich, NR4 7UY Tel 01603 287945 or 01603 286929 (Blood Sciences/Enquiries)
OXFORD Immunology	Oxford University Hospitals NHS Foundation Trust, Department of Immunology, Churchill Hospital, Old Road, Headington, Oxford, OX3 7LE Tel 01865 225995
PLYMOUTH Combined Laboratory	Derriford Combined Laboratory, Derriford Hospital, Plymouth, PL6 8DH Tel 01752 433217 (Lab Reception/Enquires)
POOLE Biochemistry Department	Poole NHS Foundation Trust, Longfleet Road, Poole, Dorset, BH15 2JB Tel 01202 448048
PORTSMOUTH Chemical Pathology	Portsmouth Hospitals NHS Trust, Queen Alexandra Hospital, Southwick Hill Road, Portsmouth, Hants, PO6 3LY Tel 02392 286000 Ex 6271 (General Enquiries Haem/Biochem) Ex 6348 OOH

LIST OF REFERRAL LABORATORIES	
QUEEN'S SQUARE, LONDON Neuroimmunology	Neuroimmunology & CSF Laboratory, Institute of Neurology (NHNN Box 76), Queen Square, London, WC1N 3BG Tel 020 3448 3814
Royal Devon and Exeter	Royal Devon & Exeter NHS Trust Tel: 01392 402936 rde-tr.bsaddon@nhs.net
ROYAL FREE, LONDON Chemical Pathology	Clinical Biochemistry, Royal Free Hospital, Pond Street, London, NW3 2QG Tel 0207 830 2081
SHEFFIELD (PRU) Department of Immunology	Department of Immunology, PO Box 894, Sheffield, S5 7YT Tel 0114 226 9196
SHEFFIELD Biomedical Sciences Group	Health & Safety Laboratory, Harpur Hill, Buxton, SK17 9JN Tel 01298 218099
SHEFFIELD Dept Chemical Pathology	Sheffield Childrens Hospital, Western Bank, SHEFFIELD, S10 2TH Tel 0114 271 7404
SHEFFIELD Dept Toxicology	Royal Hallamshire Hospital, Glossop Road, SHEFFIELD, S10 2JF Tel 0114 2267240
SOUTHAMPTON Chemical Pathology, Endocrine, Trace Metals	D Level, South Block, Southampton General Hospital, Tremona Road, SOUTHAMPTON, SO16 6YD. Tel 023 8120 6464 (Results), 023 8120 6675 (Trace Lab)
SOUTHAMPTON Immunology	Wessex Immunology, Mailpoint 8, Level C, South Block, Southampton General Hospital, Tremona Road, SOUTHAMPTON, SO16 6YD. Tel 023 8120 6615 (Autoimmune), Tel 023 8120 6640 (Flow Cytometry), Tel 023 8120 6638 (Molecular)
SOUTHEND Department of Clinical Chemistry	Department of Clinical Chemistry, Southend University Hospital, Prittlewell Chase, Westcliff-on-Sea, Essex, SS0 0RY Tel 01702 385194
ST BARTHOLOMEWS – LONDON	Dept Clinical Biochemistry, St Bartholomews Hospital, LONDON, EC1A 7BE Tel 020 73777000 x 55362 Biochem
ST HELIER'S HOSPITAL Chemical Pathology	Epson & St Heliers University Hospital, Chemical Pathology, Wrythe Lane, St Helier, Sutton, Carshalton, SM5 1AA Tel 0208 296 2825 (General Enquiries)
ST GEORGES, LONDON Protein Reference Unit	SWLP Immunology, Ground Floor, Jenner wing, St George's University Hospitals, NHS Foundation Trust, Blackshaw Road, London, SW17 0RE Tel/Fax 0208 725 0025

LIST OF REFERRAL LABORATORIES	
ST THOMAS'S, LONDON Haemophilia & Thrombosis	Diagnostic Haemostasis @ Synnovis, 4 th Floor, North Wing, St. Thomas Hospital, London, SE1 7EH Tel 020 71882799
ST THOMAS'S, LONDON Purine Research Lab	Purine Research Laboratory, 4 th Floor, North Wing, St. Thomas Hospital, Westminster Bridge Road, London, SE1 7EH Tel 0207 188 7188
UCL, LONDON Department of Biochemistry	Dept of Biochemistry, UCL Medical School, 3rd Floor, 60 Whitfield Street, London, W1T 4EW Tel 0203 447 9405