

**SPIRE PATHOLOGY
SERVICES**

**PATHOLOGY TEST
REPERTOIRE**

Ref:	SPS-QM-0500
Issued By:	National Pathology Compliance Manager
Approved By:	Pathology Director
Date:	March 2016
Applies to sites:	All Pathology Departments
Applies to staff groups:	All Pathology Staff

PATHOLOGY TEST REPERTOIRE

Key to Vacutainers

Vacutainer	Anticoagulant	Capacity	Sample Types
Lavender	EDTA	4ml	●
Gold	SST/Gel	3.5ml, 5ml	●
Blue	Citrate	4.5ml	●
Red	None	6ml	●
Black	Sodium Citrate	5 ml	●
Green	Lithium heparin	6ml	●
Pink	EDTA	6ml	●
Grey	Fluoride oxalate	2ml	●

Description	Code	Sample	Notes/ Instruction Ref	TAT	Reference Range	Units	In-House / External Test
A							
Albumin	ALB	●		4 hrs	35 - 50	g/L	IH
Alkaline Phosphatase	ALP	●		4 hrs	30 - 130	IU/L	IH
Allergy Screen (See Total and Specific IgE)		●	33				IH
Alpha 1 Anti-trypsin (Faeces)	FAIA	Solid Stool	1, 2, 3	14 days	See report	mg/gww	EXT
Alpha 1 Anti-trypsin Genotype (S and Z variant)	A1AG	●	4	45 days	See Report		EXT
Alpha 1 Anti-trypsin Phenotype	A1AP	●	4	12 days	See Report		EXT
Alpha 1 Anti-trypsin (serum)	AIA	●	4	5 days	1.1 - 2.1	g/L	EXT
Alpha Feto Protein	AFP	●		2 days	0 - 5.8	KU/L	IH
Alanine Aminotransferase	ALT	●		4 hrs	Adult Female : 1 - 31 Adult Male : 1 - 41	IU/L	
Amylase	AMY	●		4 hrs	28 - 100	IU/L	IH
Amylase (Fluid)	AMYP	Fluid	5	2 days	See Report	IU/L	IH
Amylase (Urine)	UAMY	Random Urine	5	2 days	< 1100	U/L	IH
Angiotensin Converting Enzyme	ANCE	●		2 days	20 - 70	U/L	IH
Anti DNA	ADNA	●		2 days	Negative <10 Equivocal 10 - 15 Positive >15	IU/mL	IH
Anti Extractable Nuclear Antibodies (Anti ENA) (includes Anti-Jo-1, La, RNP, Ro, Scl-70 and Sm Antibodies)	AENA	●		3 days	Screen negative : Negative Screen positive or equivocal : individual antigens will be tested separately		IH
Anti Mullerian Hormone	AMH	●		3 days	See report	pmol/L	IH

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
Anti Neutrophil Cytoplasmic Antibodies (ANCA)	ANCA	●		2 days	MPO Negative <3.5 Equivocal 3.5 - 5.0 Positive >5.0 PR3 Negative <2.0 Equivocal 2.0 - 3.0 Positive >3.0	IU/mL	IH
Antinuclear Antibodies(ANA)	ANA	●		3 days	Positive/Negative/ Cytoplasmic staining seen. If positive, titre is reflexed - reported as titre and pattern		IH
Anti Streptolysin O Titre	ASOT	●		2 days	< 200	IU/mL	IH
APTT	APT	●	1, 7, 8	4 hrs	Range is 26 – 36 however reference ranges are defined locally due to differences in technology in the network	secs	IH
Aspartate Transaminase (AST)	AST	●		4 hrs	Female: 1 - 32 Male: 1 - 38	IU/L	IH
Autoimmune Antibody Screen (includes : ANA screen, mitochondrial abs, smooth muscle abs, gastric parietal abs, reticulin abs,liver kidney microsomal abs and ribosomal abs)	AABA	●		3 days	Positive/Negative If Positive for smooth muscle or mitochondrial antibodies - reflex test. These reflex tests are reported as a titre.		IH
B							
Borrelia Burgdorferi Antibodies (Lyme disease)	ANBO	●●	9, 10, 37	5 days (Confirmatory test 21 days)	See Report		EXT
Bence Jones Protein	BJP	Fresh Early Morning Urine	5	7 days	Reported as negative or class of paraprotein		EXT
Beta HCG	BHCG	●		2 days	0 - 5	IU/L	IH
Bicarbonate	BHCO	●		2 days	22 - 26	mmol/L	IH
Bilirubin (Total)	BILI	●		4 hrs	< 21	μmol/L	IH
Blood Culture	RMCS/BCU	See Note 11	11	Up to 7 days	Not applicable		IH
Blood Group (ABO/Rh)	GP	●	12	1 - 2 days	Not applicable		IH
Blood Group and antibody screen	GRS	●	12	1 – 2 days	Not applicable		IH
Bone profile	BONE	●		4 hrs	See Report		IH
Bordetella Pertussis Antibodies	BORD	●●	9, 10, 37	12 days			EXT
Bronchial Washing for Culture	RMCS/BRW	Bronchial Washing	5	2-3 days	Not applicable		IH
Bronchial Washing for Culture and TB	AAFC/BRW	Bronchial Washing	5	2-3 days (routine culture)	Not applicable		IH
Bronchial Washing for TB Culture	AAFB/ BWT	Bronchial Washing	5	Microscopy 48 hours Final 6 Weeks	Not applicable		IH

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
C							
C Reactive Protein (CRP)	CRP	●		4 hrs	0 - 5	mg/L	IH
C1 Esterase Inhibitor	C1EF	●		9 days	0.18 - 0.37	g/L	EXT
CA 125	C125	●		2 days	1 - 35	kU/L	IH
CA 15-3	C153	●		2 days	0.01 - 25	kU/L	IH
CA 19-9	C199	●		2 days	0.01 - 34	kU/L	IH
Caeruloplasmin	CAER	●		5 days	0.2 - 0.6	g/L	EXT
Calcium (Adjusted)	CA	●	Avoid venestasis	4 hrs	2.2 - 2.6	mmol/L	IH
Calcium (24 hr Urine)	CA24	24 hr Urine (Acidified)	13, 18	2 days	2.5 - 7.5	mmol/24 hrs	IH
Carcino Embryonic Antigen	CEA	●		2 days	0 - 5.2	µg/L	IH
Cardiac Enzymes	CE	●		4 hrs	See Report		IH
Cardiolipin Antibodies (IgG)	ANCR	●		2 days	Negative: < 10 Weak Positive: 10 – 40 Positive: > 40	U/mL	IH
Cardiolipin Antibodies (IgM)	CARM	●		2 days	Negative: < 10 Weak Positive: 10 – 40 Positive: > 40	MPL	IH
Cervical Cytology	LBC	LBC container		5 - 7 days	See Report		EXT
Chlamydia, Eye Swab	CHLE	Blue ProbeTec swab		3 days	Negative or Positive by SDA		IH
Chlamydia Genital Swab	CHLC	ProbeTec Swab	14	2 days	Negative or Positive by SDA		IH
Chlamydia, Urine	CHLC	Random Urine	5	2 days	Negative or Positive by SDA		IH
Chloride	CL	●		2 days	95 - 108	mmol/L	IH
Cholesterol	CHOL	●		4 hrs	0.1 - 5.2	mmol/L	IH
Chromium (MOM Hip Investigation)	MBCR	●	15	7- 10 days	See report	nmol/L	EXT
Chromium (Nutrtion-blood)	CHRO	●	15	7 - 10 days	< 9.6	nmol/L	EXT
Citrulline Antibodies (Anti-CCP)	ACIT	●		2 days	Negative: 0 - 7.0 Equivocal: 7.0 - 10.0 Positive: >10.0	U/mL	IH
CKMB	CKMB	●		2 days	7 - 25	IU/L	IH
Clostridium Difficile Toxin (C. Diff)	FCD/FCD	Faeces	16, 17	1-2 days	Positive or Negative		IH
CMV (Cytomegalovirus) IgG Antibodies	CMVA	●		5 days	Detected or Not Detected		IH
CMV (Cytomegalovirus) IgM Antibodies	CMVI	●		5 days	Detected or Not Detected		IH
Coagulation Screen (PT/APTT)	COAG	●	1, 7, 8	4 hrs	See Report		IH
Cobalt (Metal on Metal)	MBCO	●	15	7 - 10 days	See Report	nmol/L	EXT
Cobalt (Nutrition))	COBA	●		7 - 10 days	1.7 - 6.8	nmol/L	EXT
Coeliac Screen (request TTG and Endomysial Antibodies)		●					IH
Complement C3	COM3	●		5 days	0.9 - 1.8	g/L	EXT
Complement C4	COM4	●		5 days	0.1 - 0.4	g/L	EXT

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
Copper (Serum)	CU	●		7 days	3 - 11	µmol/l	EXT
Copper (24 hr urine)	UCU	24 hr Urine	13, 18, 19	7 days	Less than 0.95 umol/24hr	µmol/24hrs	EXT
Cortisol	CORT	●		2 days	Basal: 171 – 536 Evening: 64 - 327	nmol/L	IH
Cortisol (Random Urine)	UCOR	Random Urine - 24 hour collection recommended	5	3 days	See report	nmol/L	EXT
Cortisol (24 hr Urine)	24CO	24 hr Urine	13, 19	9 days	99 - 378	nmol/24 hr	EXT
CPE Screening (Carbapenemase Producing Enterobacteriaceae)	RMCS/REC	Rectal Swab		1-4 days	Not applicable		IH
Creatine phosphokinase	CK	●		4 hrs	Female: 25 – 200 Male: 40 - 320	IU/L	IH
Creatinine	CRE	●		4 hrs	Female: 45 – 84 Male: 59 - 104	µmol/L	IH
Creatinine Clearance Test	CCT	● +24 hr Urine	13, 19, 20	2 days	66 - 143	ml/min	IH
Creatinine (Random Urine)	UCRE	Random Urine		2 days	See report	mmol/L	IH
Creatinine (24 hr Urine)	CR24	24 hr Urine	13	2 days	Female: 6 - 13 Male: 9 - 19	mmol/24 hrs	IH
Crossmatch request	GRS/ XM plus no. of units	●	12, 43	1 – 2 days	Not applicable		IH
Crystals in Fluid	FLC/FLC	Fluid	5	1-3 days	Not applicable		IH
Crystals in Fluid and Culture	RMCS/FLU	Fluid	5	Interim 2-3 days Final up to 7 days	Not applicable		IH
CSF Culture and Cell Count	RMCS/CSF	CSF	5	1-3 days	Not applicable		IH
CSF Glucose	CGLU	● CSF	5	2 days	2.2 - 3.9	mmol/L	IH
CSF Oligoclonal bands	OLIG	● +CSF	5, 22	12 - 14 days	See Report		EXT
CSF Protein	CPRO	CSF	5	2 days	0.15 - 0.40	g/L	IH
Cytology, Fine Needle Aspirate	FNA	Aspirate	1, 5	3 - 5 days	Not applicable		IH
Cytology, Fluid	FLUID	LBC container or universal	1	3 - 5 days	Not applicable		IH
Cytology, Smear	LBC	LBC container		5 - 7 days	Not applicable		EXT
Cytology, Urine	URINE	Urine	1, 5	3 - 5 days	Not applicable		IH
D							
D-Dimer	DDIM	Contact Laboratory	7, 8, 45	Contact lab	0 – 0.5	ug/ml	IH / EXT
Digoxin	DIG	●	23	3 days	See Report	See report	EXT
E							
Endocervical swab	GENC	Charcoal swab	50	2 days	Growth detected / Not detected		IH
Endomysial Antibodies (IgA)	AEND	●		2 days	Positive/Negative/ Equivocal		IH
Erythrocyte Sedimentation Rate (ESR)	ESR	●		4 hrs	Female: 10 – 20 Male: 6 -14	mm/hr	IH

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
F							
Faecal Calprotectin	FECF	Stool	16	5 days	Normal : < 50 Median : 25 >50 regarded as positive	µg/g faeces	IH
Faeces Culture	RMCS/FAE	Stool	16	3 - 4 days	Not applicable		IH
Faecal Elastase	FAEE	Stool	16	5 days	Normal: >200 Moderate Pancreatic Insufficiency: 100-200 Severe Pancreatic Insufficiency: <100	µg/g faeces	IH
Ferritin	FER	●		2 days	Female: 13 – 150 Male: 30 - 400	µg/L	IH
Fibrinogen	FIB	●	1, 7, 8	24 hrs	Generally between 1.5 – 4.0. See individual reports for specific reference range	g/L	EXT
Fluid Or Aspirate For Culture	RMCS /choose site	State Site	5	Interim 2-3 days Final up to 7 days	Not applicable		IH
Fluid Or Aspirate For Culture with TB Culture	AAFC /choose site	State Site	5	Interim 2-3 days Final up to 7 days (routine culture)	Not applicable		IH
Fluid Or Aspirate For TB Culture	AAFB /choose site	State Site	5	Microscopy 48 hours Final 6 Weeks	Not applicable		IH
Folate (Serum)	FOL	●	1, 6	2 days	4.6 - 18.7	µg/L	IH
Follicle Stimulating Hormone	FSH	●		2 days	Follicular: 3.5 - 12.5 Ovulation: 4.7 - 21.5 Luteal: 1.7 - 7.7 Post Menopause: 26 - 135	U/L	IH
Free T3	FT3	●		2 days	3.1 - 6.8	pmol/L	IH
Free T4	FT4	●		2 days	12 - 22	pmol/L	IH
Full Blood Count (FBC including Differential)	FBC	●		4 hrs	Male	Female	IH
	WBC				4.0 – 10.0	4.0 – 10.0	
	RBC				4.5 – 5.5	3.8 – 4.8	
	Hb				130 - 170	120 - 150	
	HCT				0.4 – 0.5	0.36 – 0.46	
	MCV				83 - 101	83 - 101	
	MCH				27.0 – 32.0	27.0 – 32.0	
	MCHC				315 - 345	315 - 345	
	Platelets				150 - 410	150 - 410	
	Neutrophils absolute				2.0 – 7.0	2.0 – 7.0	
	Lymphocytes absolute				1.0 – 3.0	1.0 – 3.0	
	Monocytes absolute				0.2 – 1.0	0.2 – 1.0	
	Eosinophils absolute				0.1 – 1.0	0.1 – 1.0	
	Basophils absolute				0.2 - 1.0	0.2 – 1.0	

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
G							
Gamma Glutamyl Transaminase	GGT	●		4 hrs	Female: 1 - 40 Male: 1 - 60	IU/L	IH
Gentamicin	GENT	●	24	1 day	See report	mg/L	EXT
Gliadin Antibodies (replaced by TTG and Endomysial Antibodies)		●	See NICE guidelines				
Glucose (Blood)	GLU	●		4 hrs	3.5 - 11.0	mmol/L	IH
Glucose Tolerance Test	GTT	●	By arrangement with OPD	4 hrs	See Report	mmol/L	IH
Glycated Haemoglobin / Haemoglobin A1c	GLHB	●		2 days	See Report	%	IH
Gonorrhoea culture	GENC	Charcoal swab	50	2 days	Growth detected / not detected		IH
Gonorrhoea, PCR	GOUM	Swab	14	3 days	Negative or Positive by SDA		IH
Gonorrhoea, PCR, (Urine)	UGON	Urine	5	3 days	Negative or Positive by SDA		IH
H							
Haemoglobin Electrophoresis	HPLC	●●	38, 39	7 -12 days	See Report		EXT
Harmony (Non Invasive Paternity Test)	NIPT	Contact Lab	9,25	14 days	See Report		EXT
HDL Cholesterol	HDL	●		4 hrs	Desirable Ranges Female: > 1.2 Male: > 1.0	mmol/L	IH
Helicobacter Pylori Antibody Blood Test	AHEL	●		5 days	Detected or Not Detected		IH
Helicobacter Pylori Culture	RMCS/TIS	Gastric Biopsy	26	11 Days	Not applicable		IH
Helicobacter Pylori Faecal Antigen	FHA/FHA	Stool	16	2 days	Detected or Not Detected		IH
Hepatitis A Antibodies (IgM)	HPA	●		3 days	Detected or Not Detected		IH
Hepatitis B Core Antibodies (IgM/IgG)	HBCA	●		2 days	Detected or Not Detected		IH
Hepatitis B Core Antigen	HBAN	●		7 -10 days	Detected or Not Detected		EXT
Hepatitis B (e) Antibody	HBEB	●		7 -10 days	Detected or Not Detected		EXT
Hepatitis B (e) Status	HPBE	●		10 days	Detected or Not Detected		IH
Hepatitis B Surface Antibodies	AHBS	●		2 days	See Report	IU/L	IH
Hepatitis B Surface Antigen (HbsAg)	HEPB	●		2 days	Detected or Not Detected		IH
Hepatitis C Antibodies	HEPC	●		2 days	Detected or Not Detected		IH
Histology		See Note 27	27	Tissue type dependant	See Report		IH
HIV 1, 2 Antibodies and p24 Antigen	HIV	●		2 days	Detected or Not Detected		IH
High Vaginal Swab	RMCS/HVS	See Note 28	28	2-3 days	Not applicable		IH
I							
IGF1 (Somatomedin) (also known as Insulin)	IGF1	●	29	5 days	Age and gender related See	nmol/L	EXT

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
like GF1					report		
Immunoglobulins (IgG, IgM, IgA)	IGS	●		2 days	See report		IH
Immunohistochemistry		Fixed tissue on slide	49	Tissue type dependant			IH / EXT
Infectious Mononucleosis (Mono)	MONO	●		Up to 2 days	Detected or Not Detected		IH
INR	INR	●	1, 7, 8	4 hrs	Normal 0.8 – 1.2	ratio	IH
					Anticoagulation therapy below		
					Target INR 2.5 (2.0 – 3.0) <small>For conditions See note 46</small>		
					Target INR 3.5 (3.0 – 4.0) <small>For conditions See note 47</small>		
Iron	FE	●		2 days	6.0 - 34.5	μmol/L	IH
Iron and TIBC	FEUI	●		2 days	See Report		IH
J							
JAK2 Mutation	JAK2	● ●		14 days			EXT
K							
Karyotyping (X/Y)	KARY	●	1, 4, 30, 42	17 days			EXT
L							
Lactate Dehydrogenase	LDH	●		4 hrs	Female: 135 - 214 Male: 135 - 225	IU/L	IH
LDL Cholesterol (Low Density Lipoprotein)	LDL	●		4 hrs	2.5 - 4.5	mmol/L	IH
Lipid Profile	LIP	●		4 hrs	See Report		IH
Lithium	LITH	●	4, 31	2 days	See report	See report	IH / EXT
Liver Function Tests	LFT	●		4 hrs	See Report		IH
Lupus Anticoagulant Screen	SPLU	● ● ● ●	1, 3, 6, 7, 8, 25, 34	7 days	Contact lab for Interpretation of results.		EXT
Luteinising Hormone	LH	●		2 days	Follicular : 2.4 - 12.6 Ovulation : 14.0 - 95.6 Luteal : 1.0 - 11.4 Post Menopause : 26 - 135	U/L	IH
M							
Magnesium (Blood)	MG	●		4 hrs	0.66-0.97	mmol/L	IH
Magnesium (Red Cell)	MGRC	● ●	40	12 days	1.7 - 2.6	mmol/L	EXT
Magnesium (Urine)	MGUR	Random Urine	5	2 days	Ref Range only quoted for 24hr collection	mmol/L	IH
Magnesium (24 hr Urine)	MG24	24 hr Urine (Acidified)	13	2 days	2.4 - 6.5	mmol/24 hrs	IH
Malarial Parasites	MALP	●	48	4 hours	Detected or Not Detected		IH / EXT
Measles Antibodies (IgG)	MEAS	●		5 days	Detected or Not Detected		IH
Measles Antibodies	VISC	●		5 days	Detected or Not		IH

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
(IgM)					Detected		
Metadrenalines (Urine)	MADR	24 hr Urine (Acidified)	13, 18	12 days	See Report		EXT
MRSA swab	Site dependant	Transwab (Blue)		Negative 1-2 days Positive 2-3 days	Not Isolated or See Report		IH
MSSA swab	Site dependant	Transwab (Blue)		Negative 1-2 days Positive 2-3 days	Not Isolated or See Report		IH
Mumps IgG Antibodies	MUMP	●		5 days	Detected or Not Detected		IH
Mumps IgM Antibodies	VISC	●		5 days	Detected or Not Detected		IH
Mycology	MYCC	Skin scrapings, hair or nails ONLY	25	21 days	Not applicable		IH
N							
Norovirus Screening	NORO	Faeces	16, 17	12 days	Detected or Not Detected		EXT
O							
Occult Blood	FOB	Stool x 3	25	2 days	Positive/Negative		IH
Oestradiol	OEST	●		2 days	Follicular : 46 - 607 Ovulation : 315 - 1828 Luteal : 161 - 774 Post Menopause : < 18.4 - 201 MALES : 28 - 156	pmol/L	IH
Ova, cysts and parasites (Faeces)	OCP	Stool	9, 10, 16	3 days	Not applicable		IH
P							
Parathyroid Hormone (Intact)	PTH	●	32	2 days	15 - 65	pg/mL	IH
PCA3 (Prostate Ag)	PCA3	First Catch Urine	25	7 days	See Report	Score	EXT
Pemphigoid Antibodies	APBM	●		2 days	Positive/ Negative		IH
Pemphigus Antibodies	ANPE	●		2 days	Positive/ Negative		IH
Phosphate	PHOS	●		4 hrs	0.80 - 1.50	mmol/L	IH
Phosphate (Random Urine)	UPHO	Random Urine	5	2 days	Ref Range only quoted for 24hr collection	mmol/L	IH
Phosphate (24 hr Urine)	PH24	24 hr Urine (Acidified)	13, 18, 19	2 days	15 - 50	mmol/24 hrs	IH
Plasma Viscosity	PV	●		Up to 7 days	1.5 - 1.72	CP	IH
Potassium	K	●		4 hrs	3.5 - 5.3	mmol/L	IH
Potassium (Random Urine)	UK	Random Urine	5	2 days	Ref Range only quoted for 24hr collection	mmol/L	IH
Potassium (24 hr Urine)	K24	24 hr Urine	13	2 days	25 - 125	mmol/24 hrs	IH
Pregnancy Test (Urine)	PREG	Random Urine	5	4 hrs	Negative/Positive		IH
proBNP	pBNP	●	4	2 days	0 - 125	pg/mL	IH

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
Progesterone	PROG	●		2 days	Follicular: 0.6 - 4.7 Ovulation: 2.4 - 9.4 Luteal: 5.3 - 86 Post Menopause: 0.3 - 2.5	nmol/L	IH
Prolactin	PROL	●		2 days	Woman (not pregnant): 102-496	mU/L	IH
Prostate Specific Antigen	PSA	●		2 days	Age specific See Report	ng/ML	IH
Protein (Fluid)	PROP	Fluid	5	2 days	See Report	g/L	IH
Protein (Random Urine)	UPRO	Random Urine	5	2 days	Ref Range only quoted for 24hr collection	g/L	IH
Protein (24 hour Urine)	TP24	24 hr Urine	13	2 days	0 - 0.14	g/24 hrs	IH
Protein Electrophoresis	PE	●		5 days	See Report		IH
Prothrombin Time	PT	●	1, 7, 8	4 hrs	The reference range for prothrombin time depends on the analytical method used, but is usually around 12–13 seconds (results should always be interpreted using the reference range from the laboratory that performed the test)	sec	IH
Q							
Quantiferon TB Gold	TBQ	Contact Lab	25	5 days	Negative, Intermediate or Positive		IH
R							
RAST See Total IgE or Specific IgE	IGE (Allergen code added at Spire Edinburgh)	●	33				IH
Red Cell Folate	RCF	●	41	2 days	156 - 596	ug/L	IH
Rheumatoid Factor	RHF	●		2 days	Negative: < 3.5 Equivocal: 3.5 – 5.0 Positive: > 5.0	IU/mL	IH
Rubella (IgG)	RUBG	●		3 days	See Report	IU/mL	IH
Rubella (IgM)	VISC	●		3 days	See Report	U/L	IH
S							
Serum Free Light Chains	SFLC	●		7 days	Kappa: 3.30 - 19.4 Lambda : 5.7 - 26.3 Ratio : 0.26 - 1.65	mg/L	EXT
Sex Hormone Binding Globulin	SHBG	●		Up to 10 days	Female: 26 - 110 Male: 14.5 - 48.4	nmol/L	IH
Sickle Cell Screen	SICK	●		2 days	See Report		IH
Sodium	NA	●		4 hrs	133 - 146	mmol/L	IH
Sodium (Fluid)	NAF	Fluid	5	2 days		mmol/L	IH

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
Sodium (Random Urine)	UNA	Urine	5	2 days	Ref Range only quoted for 24hr collection	mmol/L	IH
Sodium (24 hour Urine)	NA24	24 hr Urine	13	2 days	40 - 220	mmol/24 hrs	IH
Specific IgE (Individual Allergens or components)	IGE (Allergen code added at Spire Edinburgh.	●	33	2 days (stock dependant)	See report	KUA/L	IH
Sputum For Culture	RMCS/SPU	Sputum	5	2-3 days	Not applicable		IH
Sputum For Culture including TB Culture	AAFC/SPU	Sputum	5	2-3 days (routine culture)	Not applicable		IH
Sputum For TB Culture	AAFB/SPU	Sputum	5	Microscopy 48 hours Final 6 Weeks	Not applicable		IH
Stone (Calculi) Analysis	CALC	Stone	5	10 days	Not applicable		EXT
Syphilis (RPR,WDRL,TPHA)	ATRE	●		3 days	Detected or Not Detected		IH
Synacthen Test	SYNT	●		Up to 3 days	See Report		IH
T							
TB Culture (Fluid, Aspirate or Tissue)	AAFB/choose type	Fluid / Tissue/ ASP	5	Microscopy 48 hours Final 6 Weeks	Not applicable		IH
TB Culture (Early morning urine)	AAFB/EMU	Early morning urine	44	Microscopy 48 hours Final 6 Weeks	Not applicable		IH
Testosterone	TEST	●		2 days	Sex and age related See Report	nmol/l	IH
Thrombin Time	TT	●	1, 7, 8	2 days	11.0 - 17.8	sec	IH
Thrombophilia screen	SPCT	●●●●●●●	1, 6, 7, 8, 34	7 days	Contact Lab for Interpretation		EXT
Thyroglobulin Antibodies	TGAB	●		3 days	Normal: < 280 Equivocal: 280 - 344 Positive: > 344	IU/mL	IH
Thyroid Peroxidase Antibodies	TPO	●		2 days	Negative: < 60 Equivocal: 60 - 100 Positive: > 100	IU/mL	IH
Thyroid Receptor Antibodies	TSHR	●	Laboratory see note 3	12 days	Positive : > 0.4	U/L	EXT
Thyroid Stimulating Hormone (TSH)	TSH	●		2 days	0.27 -4.20	mU/L	IH
Tissue for Culture	RMCS/TIS	State Site	5	Interim 2-3 days Final up to 7 days	See Report		IH
Tissue For Culture with TB Culture	AAFC/TIS	State Site	5	See individual tests	See Report		IH
Tissue Transglutaminase (TTG)	TTG	●		2 days	Negative: < 7 Equivocal: 7 - 10	U/MI	IH

Description	Code	Sample	Notes / Instruction Ref	TAT	Reference Range	Units	In-House / External Test
Antibodies IgA					Positive: > 10		
Total IgE	IGE	●	33	2 days	0 - 200	KU/L	
Total Protein	PROT	●		4 hrs	60 - 80	g/L	IH
Total Protein (24 hr Urine)	TP24	24 hr Urine	5, 13	2 days	0 - 0.14	g/24 hrs	IH
Triglycerides	TRIG	●		4 hrs	0.3 - 2.1	mmol/L	IH
Troponin T	TROT	●	1, 42	Up to 1 day	See report	See report	IH / EXT
U							
Urea	URE	●		4 hrs	2.5 - 7.8	mmol/l	IH
Urea (Random Urine)	UURE	Random Urine	5	2 days	Ref Range only quoted for 24hr collection	mmol/L	IH
Urea (24 hr Urine)	UR24	24 hr Urine	13	2 days	1 - 580	mmol/24 hrs	IH
Urea and Electrolytes (U&E)	UE	●		4 hrs	See Report		IH
Urea and electrolytes (24 hr Urine)	UUE	24 hr Urine	13, 19	2 days	See Report		IH
Urethral swab	GENC	Charcoal swab	50	2 days	Growth detected / Not detected		IH
Uric Acid (Serum)	URTE	●		4 hrs	Female: 140 - 360 Male: 200 - 430	μmol/L	IH
Uric Acid (Fluid)	URIF	Fluid	5	2 days			IH
Uric Acid (Random Urine)	UUA	Random Urine	5	2 days	Ref Range only quoted for 24hr collection	mmol/L	IH
Uric Acid (24 hr Urine)	UAUR	24 hr Urine	13, 19	2 days	1.5 - 4.5	mmol/24 hrs	IH
Urine Culture	UMCS / choose type	Random Urine	21	1 - 3 days	Not applicable		IH
V							
Varicella Zoster IgG	VARI	●		5 days	Detected or Not Detected		IH
Varicella Zoster IgM	VISC	●		5 days	Detected or Not Detected		IH
Viral Screening	VISC	●●	9	Up to 7 days	Detected or Not Detected		IH
Vitamin B12	B12	●	3, 36 Avoid Haemolysis	2 days	91 - 663	ng/l	IH
Vitamin D (1,25 Dihydroxy)	125H	●	1, 35, 36	12 days	60 - 207.6	pmol/l	EXT
Vitamin D (25 Hydroxy)	VITD	●	1, 35	2 days	Severe deficiency: < 25 Borderline Range: 25 - 75 Optimal: 75 - 200 Possible toxicity if sustained: >250	nmol/l	IH
W							
X							
Y							
Y Microdeletion	YMIC	●●	26,30	24 days	See Report		EXT
Z							
Zinc (Serum)	ZN	●		5 days	11 - 24	μmol/l	EXT
Zinc (Urine)	ZNUR	Random Urine	5	7 days	See report		EXT

Key to Notes

- 1 Send to lab immediately.
- 2 Labile - must reach lab on same day as sample collected. Bean sized volume of faeces required in sputum/faeces pot.
- 3 Send frozen
- 4 Store between 2 - 8°C
- 5 30ml sterile White top Universal container.
- 6 Sample should be separated and frozen within 2 hours of being taken. If a delay is expected with transportation to the testing laboratory samples must be transported frozen.
- 7 If collecting using Butterfly system discard initial blue bottle.
- 8 If possible it is preferable to collect blood WITHOUT using tourniquet. Citrate (Blue bottles) MUST always be taken before other coloured bottles and filled to the line.
- 9 Clinical history and any medication information must be provided.
- 10 Provide details of patient travel history.
- 11 Collect 8-10ml blood aseptically into both the aerobic and anaerobic blood culture bottles.
- 12 Large PINK bottle. Sample must be labelled clearly by HAND with first name, surname, date of birth and either patient number or postal code . The sample MUST be signed by the person taking the blood.
- 13 Provide volume/date/time for all 24 hour samples.
- 14 Use **Pink** ProbeTec swab for female cervical and **Blue** ProbeTec swab for male urethral.
- 15 To avoid external contamination, take two EDTA samples and discard the first. Min 2mls blood.
- 16 Faeces in sterile **blue** top stool pot.
- 17 Formed faeces will not be tested
- 18 24 hour Urine container must be acid washed or contain acid, contact lab.
- 19 20ml aliquot. Give 24 hour volume in ml. Store aliquot at 2-8°C.

- 20 Blood sample must be collected during 24 hour Urine collection time.
- 21 State whether **CSU, MSU** or **specific type** on sample bottle and request form. **White** top 30 ml universal container if going immediately to lab. If delay to lab use **Red** top (Boric Acid) urine bottle. DO NOT use sputum pots.
- 22 Min 1 ml CSF and min 2ml serum. Paired CSF and serum required (max 5 days apart). Store at 4°C.
- 23 Sample 6-10hrs post dose. State dose/time
- 24 State if pre or post dose sample, state dose and other medication.
- 25 Contact the laboratory for special sample tubes/containers/kit and/or instructions.
- 26 Collect Monday to Thursday **ONLY. MUST** arrive at laboratory before **NOON**.
- 27 Sample codes are applied at the discretion of the Histopathology staff. All patient demographics and sample description **MUST** be on both the sample container and the request form. Relevant clinical history should be provided. Samples **MUST** be completely immersed in formaldehyde.
- 28 **Black** swab preferred will accept **blue** swab. State region swabbed on both sample and request form.
- 29 Minimum 0.2ml. Freeze until dispatch if >24 hours
- 30 Special Genetics form must be sent with sample.
- 31 Collect blood a minimum of 12 hours post last dose of Lithium.
- 32 **GOLD top sample** only when processed on the same day (this is only applied when the sample will arrive at Spire Laboratory Centennial Park on the same day). If the sample is transported **overnight** –need **DTA sample** spun, separated and frozen.
- 33 Include copy of allergy referral form with sample
- 34 Citrated tubes should be double centrifuged
- 35 Sample should be separated and frozen within 4 hours.
- 36 Protect from light, wrap completely in foil and transport to lab immediately.
- 37 10 mls required
- 38 Full blood count must be performed prior to carrying out the analysis
- 39 Sample should not be more than 7 days old

- 40 Send Mg serum result and haematocrit from FBC
- 41 Stable for 2 - 4 hours at 20 - 25 °C, for 24 hours at 2 - 8 °C and at -20°C for one month. Sample should be frozen if a delay is expected with transportation to the testing laboratory, samples must be transported frozen.
- 42 Do **NOT** spin.
- 43 Samples from patients who have not had a transfusion or been pregnant in the last 3 months are able to be cross matched from this sample up to 7 days before transfusion; otherwise sample must be taken within 72 hours of the transfusion. Please ensure the laboratory is aware if this is an urgent request. A second sample may be required if there is no historic group available for the patient.
- 44 3 consecutive early morning whole bladder urine specimens to be collected in large 250ml containers.
- 45 The units and reference ranges are applicable to Spire laboratories who perform D-Dimer on site (Spire Gatwick Park, Spire Alexandra, Spire Centennial Park (Bushey), Spire Dunedin, Spire Hartswood, Spire Leicester, Spire St Johns and Elizabeths). For all other laboratories please refer to the printed report
- 46 Treatment of DVT, PE, AF, recurrent DVT off warfarin, symptomatic inherited thrombophilia, cardiomyopathy, mural thrombus, cardioversion.
- 47 Recurrent DVT while on warfarin, mechanical prosthetic heart valves, antiphospholipid syndrome (some cases)
- 48 Negative smears will be confirmed by an alternative method
- 49 ER, PR and Her-2 are referred externally to University College London. Most other IHC is processed in-house at Spire Manchester, Spire Parkway and Spire Alexandra.
- 50 Swab must reach the laboratory within 24 hours of being taken otherwise detection of Gonorrhoeae may be compromised.