


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <b>Accredited to ISO 15189:2012</b>	<b>Lewisham and Greenwich NHS Trust</b>	
	Issue No: 003    Issue date: 14 January 2021	
	<b>Queen Elizabeth Hospital</b> Stadium Road Woolwich SE18 4QH	<b>Contact: Kathleen Kidd</b> Tel: +44 (0) <u>208</u> 333 3000 ext. 8478 E-Mail: <a href="mailto:kathleenkidd@nhs.net">kathleenkidd@nhs.net</a> Website: <a href="http://www.lewishamandgreenwich.nhs.uk">www.lewishamandgreenwich.nhs.uk</a>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Queen Elizabeth Hospital Stadium Road Woolwich SE18 4QH	<b>Local contact</b> Kathleen kidd Tel: +44 (0) <u>208</u> 333 3000 ext. 8478 E mail: <a href="mailto:kathleenkidd@nhs.net">kathleenkidd@nhs.net</a>	Routine Histopathology Special Stains Immunohistochemistry Immunology Clinical Biochemistry Haematology Blood transfusion	QEH
University Hospital Lewisham High Street Lewisham London SE13 6LH	Kathleen Kidd Tel: +44 (0) <u>208</u> 333 3000 ext. 8478 E mail: <a href="mailto:Kathleenkidd@nhs.net">Kathleenkidd@nhs.net</a>	Clinical Biochemistry Haematology Blood transfusion	UHL



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**Site activities performed away from the locations listed above:**

Location details	Activity	Location code
Blood Sciences Laboratory Queen Elizabeth Hospital Stadium Road Woolwich SE18 4QH	Blood storage (stock/issue) Fridge managed by laboratory	QEH
Ward 21 Haematology/Oncology Queen Elizabeth Hospital Stadium Road Woolwich SE18 4QH	Blood storage only Fridge managed by laboratory	QEH
Theatres Queen Elizabeth Hospital Stadium Road Woolwich SE18 4QH	Blood storage only Fridge managed by laboratory	QEH
Blood issue room Rapid response laboratory University Hospital Lewisham High Street Lewisham London SE13 6LH	Blood product storage (Stock/issue) Fridge managed by laboratory	UHL
Main Theatre University Hospital Lewisham High Street Lewisham London SE13 6LH	Blood storage Fridge managed by laboratory	UHL



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>HUMAN BODY TISSUE</p> <p>Tissue samples (including breast; gastrointestinal; skin; urological; bronchial/lung/thoracic; endocrine including thyroid, parathyroid, adrenal; lymphoreticular including lymph nodes, spleen, and bone marrow trephines [processing only for bone marrow trephines]; liver; bone and soft tissues; , gynaecological; and head and neck)</p> <p>Formalin Fixed Tissue</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Supported by:</p> <p>Specimen dissection: Cut-up Manual - Routine Specimens categorised according to the RCPATH as, SOP CHQ-DP-008 &amp; SOP CHQ-DP-009, CHQ-RP-00013 &amp; CHQ DP 0010 'A' specimens 'B' specimens 'C' specimens 'D' specimens</p> <p>Decalcification using acid decalcifiers (Decalcifier 1 and 2) SOP CHQ-DP-0010</p> <p>Processing using Sakura TissueTek VIPs ; VIP5 : SOP CHQ-MP-0026 VIP6 : SOP CHQ-MP-0065</p> <p>Embedding using : Tissue tek Embedding Centre SOP CHQ-MP-005</p> <p>Microtomy: Using rotary Microtomes, Shandon Finesse, Leica (SOP CHQ-MP-006, CHQ-MF-0024)</p> <p>Macroscopic and Microscopic examination: Documented in-house procedures for staining for staining and reading</p>	<p>QEH</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>DEMONSTRATION OF:</p> <p>Basophilic and eosinophilic structures</p> <p>Acid Mucopolysaccharides</p> <p>Acid and Neutral Mucopolysaccharides</p> <p>Amyloid</p> <p>Elastic fibres and connective tissue</p> <p>Bile pigments</p> <p>Fungi including Pneumocystis jiroveci (carinii)</p> <p>Mucin; Cryptococcus</p> <p>Helicobacter/Microorganisms</p> <p>Gram +ve &amp; -ve microorganisms</p> <p>Connective tissue and fibrin</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Haematoxylin and Eosin staining SOP CHQ-SP-001 in conjunction with manufacturer's instructions for Leica Autostainer</p> <p>Special Tinctorial Histochemical Staining:</p> <p>Alcian Blue (SOP CHQ-SP-003)</p> <p>Alcian Blue/Periodic Acid Schiff (SOP CHQ-SP-002)</p> <p>Congo Red (SOP CHQ-SP-005)</p> <p>Elastic/Haematoxylin Van Gieson (EVG/HVG) (SOP CHQ-SP-007, CHQ-SP-014)</p> <p>Fouchet van Gieson (SOP CHQ-SP-008)</p> <p>Grocott Hexamine Silver (SOP-CHQ-SP-013)</p> <p>Mucicarmine (SOP CHQ-SP-0020)</p> <p>Giemsa (SOP CHQ-SP-009)</p> <p>Gram (SOP CHQ-SP-0011)</p> <p>Martius Yellow, Brilliant Crystal Scarlet, Soluble Blue (MSB) (SOP CHQ-SP-0019)</p>	<p>QEH</p>



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<p>HUMAN BODY TISSUE (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>DEMONSTRATION OF:</p> <p>Melanin, Argentaffin cells and Lipofuchsin</p> <p>Connective tissue</p> <p>Neutral Mucopolysaccharides, glycogen and fungus</p> <p>Haemosiderin and ferric iron</p> <p>Reticulin fibres</p> <p>Copper-associated protein and Hepatitis B-affected cells</p> <p>Mast cells</p> <p>Tubercle bacilli</p> <p>Melanin bleach</p> <p>Leprosy bacilli</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Special Tinctorial Histochemical Staining Cont'd.:</p> <p>Masson Fontana (SOP CHQ-SP-0016)</p> <p>Masson's Trichrome (SOP CHQ-SP-0017)</p> <p>Periodic Acid Schiff (PAS) &amp; Diastase PAS (D/PAS) (SOP CHQ-SP-0023)</p> <p>Perl's Prussian Blue (SOP CHQ-SP-0024)</p> <p>Reticulin- Gordon &amp; Sweets (SOP CHQ-SP-0010)</p> <p>Shikata's Orcein (SOP CHQ-SP-0022)</p> <p>Toluidine Blue (SOP CHQ-SP-0028)</p> <p>Ziehl Neelsen (ZN) (SOP CHQ-SP-0021)</p> <p>Mallory Melanin Bleach (SOP CHQ-SP-0015)</p> <p>Wade-Fite (SOP CHQ-SP-0029)</p>	<p>QEH</p>



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:	QEH
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	Immunohistochemistry to detect the following:	Ventana Benchmark stainer SOP (CHQ-IP-0015) in conjunction with manufacturers instructions Incorporating the following antibodies:	
	Embryonic cell in normal tissues and germ cell tumours	Alpha Fetoprotein	
	Cytokeratins (acidic, basic)	AE1/AE3	
	HGPIN, prostate adenocarcinoma	AMACR (Racemase)	
	T lymphocytes, follicular lymphoma, basal cell carcinoma	Bcl2 oncoprotein	
	Epithelial cell types	Ber Ep4	
	Pancreaticobiliary adenocarcinomas	CA 19.9	
	Ovarian tumours	CA 125	
	Smooth muscle	Caldesmon	
	Myoepithelial cells, smooth muscle cells	Calponin	
	Mesothelial cells	Calretinin	
	Glandular cells	CAM 5.2	
	T cells	CD3	
	Mature T cells, T cell lymphomas	CD5	



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:	QEH
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Ventana Benchmark stainer SOP (CHQ-IP-0015) in conjunction with manufacturers instructions Incorporating the following antibodies:	
	Mature B cells, CALLA	CD10	
	Granulocytes, Reed-Sternberg cells	CD15	
	B cells	CD20	
	Reed-Sternberg cells, plasma cells, ALCL	CD30	
	Endothelial cells	CD31	
	Haematopoetic cells, vascular endothelium	CD34	
	Natural killer cells, neuroendocrine tissues	CD56	
	Macrophages, monocytes, myeloid cells	CD68	
	B cells	CD79alpha	
	Ewing Sarcoma, atypical fibroxanthoma	CD99	
	Mast cells, GIST	CD117/CKIT	
	Plasma cells	CD138	
	Intestinal epithelial cells, colorectal + other adenocarcinomas	CDX2	



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Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Ventana Benchmark stainer SOP (CHQ-IP-0015) in conjunction with manufacturers instructions Incorporating the following antibodies:	
	CEA glycoproteins	CEA	
	Tissues of neuroendocrine origin	Chromogranin	
	CytoMeglo Virus	CMV	
	Mantle cell lymphoma	Cyclin D1	
	Basal cells, filamentous keratins from glandular to stratified squamous	Cytokeratin (HMWCK/34βE12)	
	Epithelial tissue from glandular to stratified squamous	Cytokeratin (MNF116)	
	Stratified squamous epithelium, basal cells, mesotheliomas	Cytokeratin 5/6	
	Normal and neoplastic epithelia	Cytokeratin 7	
	Carcinomas of simple epithelium	Cytokeratin 8/18	
	Epithelial and carcinoma cells	Cytokeratin 19	
	Adenocarcinomas, columnar epithelial cells	Cytokeratin 20	
	Striated and smooth muscle cells	Desmin	





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Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Ventana Benchmark stainer SOP (CHQ-IP-0015) in conjunction with manufacturers instructions Incorporating the following antibodies:	
	Lymphatic vessels	D2-40	
	Gastrointestinal stromal tumour	DOG-1	
	Normal ductal epithelial cells, ductal carcinoma	E-Cadherin	
	Normal and neoplastic epithelium	EMA	
	Endothelial cell	Factor XIIIa	
	Thyroid tumours	Galectin 3	
	Mammary gland carcinomas	GATA-3	
	Mammary gland carcinomas	GCDFP-15	
	Mammary gland carcinomas	Mammaglobin	
	Placental trophoblasts	HCG	
	Hep B virus	Hep B surface antigen	
	Kaposi's sarcoma	HHV-8	
	Melanoma, melanocyte differentiation	HMB45	
	Sex cord stromal tumours	Inhibin	
	Proliferating Cells	Ki 67	



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Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Ventana Benchmark stainer SOP (CHQ-IP-0015) in conjunction with manufacturers instructions Incorporating the following antibodies:	
	B cells, T cells, monocytes, macrophages	LCA	
	Melanoma marker	Melan-A	
	Adenocarcinoma	MOC-31	
	Rhabdomyosarcoma	MyoD1	
	Alveolar cells, lung adenocarcinoma	Napsin A	
	Nuclei of cells expressing oestrogen	Oestrogen Receptors	
	High grade dysplasia of cervix	p16	
	Dysplasia in Barrett's oesophagus	p53	
	Gestational trophoblastic disease	p57	
	Prostate basal cells, myoepithelial cells	p63	
	Prostatic glandular epithelium	PAP	
	Ovarian tumour, renal cell carcinoma	PAX-8	
	Neurones, melanocytes, neuroendocrine cells	PGP 9.5	



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HUMAN BODY TISSUE (cont'd)	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:	QEH
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Ventana Benchmark stainer SOP (CHQ-IP-0015) in conjunction with manufacturers instructions Incorporating the following antibodies:	
	Germ cell tumours	PLAP	
	Pneumocystis jiroveci (carinii)	Pneumocystis jiroveci (carinii)	
	Nuclei of cells expressing Progesterone	Progesterone Receptors	
	Prostate secretory and ductal epithelium	PSA	
	Renal cell carcinoma	RCC	
	Schwann cells, nerve processes, neural and melanocytic neoplasms	S100	
	Smooth muscle cells, myoepithelial cells	Smooth Muscle Actin (SMA)	
	Smooth muscle cells, myoepithelial cells	Smooth Muscle Myosin (SMMS-1)	
	Melanocytes	SOX-10	
	Neuroendocrine cells	Synaptophysin	
	Thyroid epithelial cells	Thyroglobulin	
	Thyroid and lung epithelial cells	TTF1	
	Gastrointestinal epithelium	Villin	



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Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Ventana Benchmark stainer SOP (CHQ-IP-0015) in conjunction with manufacturers instructions Incorporating the following antibodies:	
	Mesothelial cells, serous carcinoma	WT-1	
	Mismatch Repair Genes in Hereditary Nonpolyposis Colonic Cancer (HNPCC)	MMR Panel (MSH2, MSH6, MLH1, PMS2)	
	lung squamous cell carcinomas	P40	
	skin basal cell carcinomas	CK14	
	breast and prostate carcinoma	Androgen receptor	



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Human tissues and Biological fluids	<b><u>Biochemistry examination activities for the purpose of clinical diagnosis</u></b>	<u>In house documented methods incorporating manufacturers' instructions as required</u>	
Serum unless otherwise stated		Roche Cobas c8000 -with Roche ISE, c702 for spectrophotometric and e801 for immunoassays in conjunction with manufacturer's instructions and SOP BB-AP-042 (QEH) & SOP BB-AP-052 BB-AP-046 & BB-AP-073 BB-AP-079 (UHL) and the following principles:	QEH UHL (Unless otherwise stated)
	ACE	Kinetic method using third party reagents Buhlmann as an open channel using SOP BB-AP-065	QEH
	Albumin	Colorimetric detection methods	
	Ammonia	Enzymatic detection, BB-AP-078	UHL
Fluid	Fluid amylase	Enzymatic detection	QEH
Serum	Bicarbonate	Colorimetric detection methods	
	Bile Acid	Colorimetric method BB-AP-006 Bile acid as an open channel	QEH
Serum unless otherwise stated		Roche Cobas c8000 -with Roche ISE, c702 for spectrophotometric and e801 for immunoassays in conjunction with manufacturer's instructions and SOP BB-AP-042 (QEH) & SOP BB-AP-052 BB-AP-046 & BB-AP-073 BB-AP-079 (UHL) and the following principles:	



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CSF Glucose Enzymatic detection CK Enzymatic detection Fructosamine Colorimetric detection methods CSF Protein Turbidimetric detection			
Serum/urine	Bilirubin Total	Colorimetric detection	
Serum	Calcium	Colorimetric detection	
	Adjusted Calcium	Calculation	
	Iron	Colorimetric detection methods	
	Magnesium	Colorimetric detection methods	
	Total Protein	Colorimetric detection methods	
	Globulin	Calculation	
	Alkaline Phosphatase	enzymatic detection methods	
Serum/urine	Amylase	Enzymatic detection methods	
Serum	Cholesterol	Enzymatic detection methods	
Blood, Urine	Creatine Kinase	Colorimetric detection methods	
CSF	Lactate	Enzymatic detection methods	QEH
Serum	Glucose (Fasting, random)	Enzymatic detection methods	



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Serum unless otherwise stated		Roche Cobas c8000 -with Roche ISE, c702 for spectrophotometric and e801 for immunoassays in conjunction with manufacturer's instructions and SOP BB-AP-042 (QEH) & SOP BB-AP-052 BB-AP-046 & BB-AP-073 BB-AP-079 (UHL) and the following principles:	
	Ethanol	Enzymatic detection methods	
	Gamma GT	Enzymatic colorimetric	
Urine	Protein:creatinine ratio	Calculation	
Urine	Albumin:creatinine ratio	Calculation	QEH
Urine	Microalbumin	Immuno-turbidimetric detection methods	QEH
	Rheumatoid Factor	Immuno-turbidimetric detection methods	QEH
	Direct Bilirubin	Wako Vandate oxidation method colorimetric SOP BB-AP-074 Direct Bilirubin on Cobas 8000 as an open channel	
	Ferritin	sandwich immunoassay detection	
	Troponin T	sandwich immunoassay detection	
	Vitamin D	competitive immunoassay detection	
	HDL Cholesterol	Enzymatic colorimetric detection methods	



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Human tissues and Biological fluids (cont'd)  Serum unless otherwise stated	<b><u>Biochemistry examination activities for the purpose of clinical diagnosis</u></b> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>  Roche Cobas c8000 -with Roche ISE, c702 for spectrophotometric and e801 for immunoassays in conjunction with manufacturer's instructions and SOP BB-AP-042 (QEH) & SOP BB-AP-052 BB-AP-046 & BB-AP-073 BB-AP-079 (UHL) and the following principles:	QEH/UHL (Unless otherwise stated)
	Non HDL Cholesterol	Calculation	
	LDL Cholesterol	Calculation	
CSF	Lactate	Enzymatic detection methods	QEH
Serum	Lactate	Enzymatic colorimetric detection methods	
	Triglycerides	Enzymatic colorimetric detection methods	
Serum/Urine	Uric acid	Enzymatic colorimetric detection methods	
Blood	Lactate Dehydrogenase	rate enzymatic detection	
Fluid	Lactate Dehydrogenase	rate enzymatic detection	QEH
Blood/urine	Potassium	ion selective electrode (indirect) detection	
	Sodium	ion selective electrode (indirect) detection	
Urine	Protein	Turbidimetry detection	
Blood/UrineUreaKinetic rate photometric	Phosphate	UV Photometric	
	Alpha Fetoprotein	Sandwich immunoassay detection	QEH





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	NT-Pro-BNP (natriuretic peptide)	Sandwich immunoassay detection	QEH
	CA125	Sandwich immunoassay detection	QEH
	CA 15-3	Sandwich immunoassay detection	QEH
	CA 19-9	Sandwich immunoassay detection	QEH
	Follicle Stimulating Hormone	Sandwich immunoassay detection	QEH
	BhCG	Sandwich immunoassay detection	
	Leutinising Hormone	Sandwich immunoassay detection	QEH
	Prolactin	Sandwich immunoassay detection	QEH
	Total Prostate Specific Antigen	Sandwich immunoassay detection	QEH
	Parathyroid Hormone	Sandwich immunoassay detection	QEH



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**Lewisham and Greenwich NHS Trust**  
**Issue No: 003 Issue date: 14 January 2021**

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Human tissues and Biological fluids (cont'd)  Serum unless otherwise stated	<b><u>Biochemistry examination activities for the purpose of clinical diagnosis</u></b> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>  Roche Cobas c8000 -with Roche ISE, c702 for spectrophotometric and e801 for immunoassays in conjunction with manufacturer's instructions and SOP BB-AP-042 (QEH) & SOP BB-AP-052 BB-AP-046 & BB-AP-073 BB-AP-079 and the following principles:	QEH/UHL (Unless otherwise stated)
	Sex Hormone Binding Globulin	Sandwich immunoassay detection	QEH
	Thyroid Stimulating Hormone	Sandwich immunoassay detection	
	Carcinoembryonic Antigen	Sandwich immunoassay detection	QEH
	Cortisol	Competitive Immunoassay detection	
	Free T3	Competitive Immunoassay detection	
	Free T4	Competitive Immunoassay detection	
	Progesterone	Competitive Immunoassay detection	
	Testosterone	Competitive Immunoassay detection	QEH
	Oestradiol	Competitive Immunoassay detection	QEH
	Anti-TPO (Thyroid Peroxidase)	Competitive Immunoassay detection	QEH



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Human tissues and Biological fluids (cont'd)  Serum unless otherwise stated	<b><u>Biochemistry examination activities for the purpose of clinical diagnosis</u></b>	<u>In house documented methods incorporating manufacturers' instructions as required</u>  Roche Cobas c8000 -with Roche ISE, c702 for spectrophotometric and e801 for immunoassays in conjunction with manufacturer's instructions and SOP BB-AP-042 (QEH) & SOP BB-AP-052 BB-AP-046 & BB-AP-073 BB-AP-079 (UHL) and the following principles:	QEH/UHL (Unless otherwise stated)
	Digoxin	competitive Immunoassay detection	
	Lithium	colorimetric detection	
	Paracetamol	enzymatic detection	
	Salicylate	enzymatic detection	
	Phenytoin	KIMS detection	QEH
	Theophylline	KIMS detection	
	Carbamazepine	KIMS detection	QEH
	Valproate	enzymatic immunoassay detection	QEH
	Gentamicin	enzymatic immunoassay detection	
	Vancomycin	enzymatic immunoassay detection	
	Amikacin	KIMS detection, BB-AP-077 Amikacin run on Roche Cobas 8000	UHL
Blood, arterial and Venous	Actual Base Excess (blood gas)	Radiometer ABL90 Plus, calculated with manufacturer's instructions using SOP PC-P-051	



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Human tissues and Biological fluids (cont'd)	<b><u>Biochemistry examination activities for the purpose of clinical diagnosis</u></b> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	QEH/UHL (Unless otherwise stated)
Blood, arterial and Venous	Standard Bicarbonate (blood gas)	Radiometer ABL90 Plus, calculated with manufacturer's instructions using SOP PC-P-051	
	Calcium (Blood gas)	Potentiometry Radiometer ABL90 Plus, calculated with manufacturer's instructions using SOP PC-P-051	
	Oxygen saturation (blood gas)	Radiometer ABL90 Plus calculated with manufacturer's instructions using SOP PC-P-051 and Using Ion selective electrode	
	Glucose (Blood gas)	Amperometry	
	Haematocrit (Blood gas)	Calculated method	
	Lactate (Blood gas)	Amperometry	
	Methaemoglobin	spectrophotometry	
	Oxyhaemoglobin (Blood gas)	spectrophotometry	
	Oxygen saturation (Blood gas)	spectrophotometry	
	Chloride (Blood gas)	Potentiometry	
	Potassium (blood gas)	Using Ion selective electrode, Potentiometry	
	Sodium (blood gas)	Using Ion selective electrode, potentiometry	
	pH (blood gas)	Using Ion selective electrode, potentiometry	
	pCO2 (blood gas)	potentiometry	



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Human tissues and Biological fluids (cont'd)	<b><u>Biochemistry examination activities for the purpose of clinical diagnosis</u></b> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	QEH/UHL (Unless otherwise stated)
Blood, arterial and Venous	pO <sub>2</sub>	Radiometer ABL90 Plus, with manufacturer's instructions using SOP PC-P-051 spectrophotometry	
	Total Haemoglobin (blood gas)	Spectrophotometry, Radiometer ABL90 Plus, with manufacturer's instructions using SOP PC-P-051	
Blood	Carboxyhaemoglobin (blood gas)	Spectrophotometric Radiometer ABL90 Plus with manufacturer's instructions and SOP PC-P-051	
Faeces	Calprotectin	Immunoassay, using chemiluminescent technology – Werfen instrument - AcuStar Manual extraction – pre-analytical	QEH
Blood	HbA1c	Biorad D100 HPLC with manufacturer's instructions using SOP BB-MP-049	QEH
	Ketones	Electrode strips, Abbott Freestyle Optimum H ketone meter with manufacturer's instructions using SOP PC-P-009	QEH
Blood/Urine	Osmolality	Advanced micro osmometer 3300 freezing point depression using BB-AP-002	
Blood	Macroprolactin	PEG precipitation and Cobas 8000 with manufacturer's instructions using SOP BB-MP-014	QEH
Urine	Myoglobin	Multi-sticks dipstick. Seimens Clinitek Urinalysis with manufacturer's instructions using SOP BB-MP-010 and PC-P-028	QEH



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Human tissues and Biological fluids (cont'd)	<b><u>Biochemistry examination activities for the purpose of clinical diagnosis</u></b> (cont'd)	<u>In house documented methods incorporating manufacturers' instructions as required</u>	QEH/UHL (Unless otherwise stated)
CSF	Xanthochromia	Scanning spectrophotometric Perkin Elmer Spectrophotometer with manufacturer's instructions using SOP BB-MP-017	QEH
Urine	Catecholamines	Thermo Fisher U3000, HPLC, BB-MP-038 HPLC Method for Urine Catecholamines	QEH
Urine	5 Hydroxy indole acetic acid (5HIAA)	Thermo Fisher U3000, HPLC, BB-MP-038 HPLC. BB-MP-041 Urine 5-hydroxy-indole acetic acid (5HIAA) by HPLC	QEH
Sweat	Sweat Chloride	Wescor Macroduct Collection system Wescor 3100 Sweat Check Sweat conductivity analyser, Corning 925 Chloride analyser	UHL
Faeces	Haemoglobin concentration	Faecal Immunochemical Test based on Latex immune-agglutination method, using nephelometry– Instrument OC sensor iO MAST-BB-MP-059	QEH



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HUMAN BODY FLUIDS	<b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b>	In house documented methods incorporating manufacturers' instructions where relevant	QEH/UHL (Unless otherwise stated)
Whole Blood (EDTA)	Full blood count (FBC):  Platelets red blood cells  haematocrit MCV MCH MCHC RDW White cell count neutrophils Lymphocytes Monocytes Eosinophils Basophils Reticulocytes  Haemoglobin Hb	Sysmex XN 2000 (XN10) SOP BH-AP-045 Sysmex XN 9000 (XN10/20) SOP BH-AP-007 Sheath flow detection Sysmex XN 9000 (XN10/20)  Sysmex XN 2000/ 9000 (XN10 & XN20) using SLS haemoglobin method-photometric method with manufacturer's instructions using SOP BH-AP-007/045	
Blood	Blood Film examination- Detection of normal and abnormal morphologies and white blood cell differential	Romanowski staining Haematek 2000 and Light microscopy using SOP BH-AP-014	
Bone marrow	Examination of bone marrow: in order to identify or exclude Morphological and Cytological abnormalities for the purpose of diagnosis	Light microscopy using SOP BH-SP-013 MGG and Iron stain using SOP BH-SP-024	



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HUMAN BODY FLUIDS	<b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b>	In house documented methods incorporating manufacturers' instructions where relevant	QEH/UHL (Unless otherwise stated)
Plasma- citrate	Erythrocyte Sedimentation Rate (automated)	Westergren reference method using StaRRsed ST Analyser SOP BH-AP-042	UHL
	<u>Coagulation screen</u>	Werfen ACL350/550/750 with manufacturers instructions using SOP BH-CP-003,007,012, ,022, ,025, photo optical method	
	Prothrombin time (PT)		
	INR		
	Activated Partial Thromboplastin Time (APTT)		
	Thrombin time		
	Fibrinogen Anti Xa Assay D-Dimer	Immunological latex using SOP BH-CP-011	
	Glandular fever/infectious mononucleosis (IM) Heterophile antibodies	Clearview IM ELISA test kit using SOP BH-AP-018	
	Malarial Parasite identification Detection of Malarial antigens of: <i>P. falciparum</i> Pan-detection for <i>P. malariae</i> <i>P. ovale</i> <i>P. vivax</i>	ICT method pLDH/HRP-2 combination antibody test SOP BH-AP- 016	





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HUMAN BODY FLUIDS	<b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b>	In house documented methods incorporating manufacturers' instructions where relevant	QEH/UHL (Unless otherwise stated)
Blood films	Malarial Parasite identification Detection of:  <i>P. falciparum</i> <i>P. malariae</i> <i>P. ovale</i> <i>P. vivax</i> <i>P. Knowlesi</i>	Manual interpretation of blood films Using microscope and SOP BH-AP- 016	
Blood (EDTA)	Detection of HbS solubility  Abnormal Haemoglobin studies detection of presence and separation of Hb, Hb C Hb D Hb E HbF Hb Lepore Hb O	Sickle cell screen using Itano's solution an Microgen S-Test kit using SOP BH-SP-011 with manufacturer's instructions  HPLC using SOP BH-SP-018	
	Abnormal Haemoglobin studies detection of presence and separation of Hb, Hb C Hb D Hb E HbF Hb Lepore Hb O	Sebia Hydrasys 2 scan using gel electrophoresis with manufacturers instructions using SOP BH-SP-016,017	QEH



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HUMAN BODY FLUIDS (cont'd)	<b><u>Haematological examination activities for the purpose of clinical diagnosis</u></b> (cont'd)	In house documented methods incorporating manufacturers' instructions where relevant	QEH/UHL (unless otherwise stated)
Blood Plasma:citrate	Lupus screening Factor assays:  Factor II Factor V Factor VII Factor VIII Factor IX Factor X Factor XI Factor XII Protein C Protein S Anti-thrombin iii	Werfen ACL 750 with manufacturer's instructions using SOP BH-CP-003, 007, 012,014,015,022,024,025,026,027,031	QEH
	Mutation Detection for Factor V Leiden/ Prothrombin gene (G20210A)	PCR technique using GeneXpert and SOP BH-CP-033	QEH
	CD4/CD8 Immunophenotyping	Beckman Coulter Aquios by flow cytometry BH-AP-033	QEH



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Human tissues and Biological fluids (cont'd)  Blood: EDTA	<p><b><u>Blood Transfusion examination activities for the purpose of clinical diagnosis:</u></b></p> <p>Blood Group A,B,O and AB detected, Antibody detection</p> <ul style="list-style-type: none"> <li>• A B O <ul style="list-style-type: none"> <li>• Rhesus: anti-C<sup>w</sup>, anti-C, anti-c, anti-D, anti-E, anti-e,</li> <li>• Kell system: anti-K, anti-k, anti-Kp<sup>a</sup>,</li> <li>• Kidd: anti-Jk<sup>a</sup>, anti-Jk<sup>b</sup>,</li> <li>• Duffy: anti-Fy<sup>a</sup>, anti-Fy<sup>b</sup>,</li> <li>• Lutheran: anti-Lu<sup>a</sup>,</li> <li>• MNS: anti-M, anti-N, anti-S, anti-S,</li> <li>• Lewis: anti-Le<sup>a</sup>, anti-Le<sup>b</sup>,</li> </ul> </li> </ul> <p>P<sub>1</sub>: anti-P:-</p> <p>Antibody identification of the following:</p> <ul style="list-style-type: none"> <li>• Rhesus: anti-C<sup>w</sup>, anti-C, anti-c, anti-D, anti-E, anti-e,</li> <li>• Kell system: anti-K, anti-k, anti-Kp<sup>a</sup>,</li> <li>• Kidd: anti-Jk<sup>a</sup>, anti-Jk<sup>b</sup>,</li> <li>• Duffy: anti-Fy<sup>a</sup>, anti-Fy<sup>b</sup>,</li> <li>• Lutheran: anti-Lu<sup>a</sup>,</li> <li>• MNS: anti-M, anti-N, anti-S, anti-S,</li> <li>• Lewis: anti-Le<sup>a</sup>, anti-Le<sup>b</sup>,</li> </ul> <p>P<sub>1</sub>: anti-P:-</p>	<p><u>In house documented methods incorporating manufacturers' instructions as required</u></p> <p>Gel techniques using Grifols: DG Gel Coombs card, DG Gel Neutral card, Serascan Diana 3/3P, DG Gel Sol. SOPs required: QE-BTAUT008, QE-BT-AUT009, QE-BT-MAN002, QE-BT-MAN003</p> <p>Gel techniques using Grifols: DG Gel Coombs card, DG Gel Neutral card, DG Gel Sol, Identisera Diana, NHSBT ID Panel Cells in CellMedia. SOPs required: QE-BTAUT008, QE-BT-AUT009, QE-BT-MAN002, QE-BT-MAN003.</p>	QEH/UHL (unless stated otherwise)



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Human tissues and Biological fluids (cont'd)	<p><b><u>Blood Transfusion examination activities for the purpose of clinical diagnosis:</u></b></p> <p>Direct Anti-globulin Test Automated / Manual: Monospecific and Polyspecific)</p> <p>Transfusion reaction investigation</p> <p>Electronic Issue Crossmatch</p> <p>IAT Crossmatch</p> <p>Foetal Maternal Haemorrhage Estimation - detection of foetal bleed in maternal circulation</p>	<p><u>In house documented methods incorporating manufacturers' instructions as required</u></p> <p>Gel techniques using Grifols: DG Gel Coombs card, DG Gel DC Scan card, DG Gel Sol. SOPs required: QE-BTAUT008, QE-BT-MAN004, QE-BT-MAN005.</p> <p>Grifols Manual Gel Card technology SOP QE-BT-ISS011</p> <p>WinPath. SOPs required: QE-BT-ISS007, QE-BT-ISS008, QE-BT-ISS009, QE-BT-ISS010, QE-BT-ISS012, QE-BT-ISS 0202, QE-BT-ISS021, QE-BT-ISS029, QE-BT-ISS030, QE-BT-ISS031, QE-BT-ISS032, QE-BT-ISS035, QE-BT-ANT002, QE-BT-ANT005.</p> <p>Manual Grifols Gel Card Technology using SOP QE-BT-MAN005</p> <p>Manual Acid Elution (Kleihauer) QE-BT-ANT004- BioScience: PBSS Ph 7.0, Fixol fixative, fetal red cell detection Kit.</p>	QEH/UHL (unless stated otherwise)



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Human tissues and Biological fluids (cont'd)  Serum	<p><b><u>Immunology examination activities for the purpose of clinical diagnosis</u></b></p> <p>RAST (specific IgE)</p> <p>Avocado Almond Alternaria alternate Apple Aspergillus fumigatus Banana Blue Mussel Brazil nut Cacao Cashew Cat dander Cheese Coconut Cod Dog dander Egg white Egg yolk Gluten Hazel nut House dust mite Kiwi Latex Milk Mixed fish (cod, shrimp, blue mussel, salmon, tuna) Mixed food (egg white, milk, cod, wheat, peanut, soya) Mixed grass Mixed nuts (peanut, hazelnut, brazil nut, almond, coconut) Mixed trees Orange Peanut Pistachio Salmon Sesame seed Shrimp Silver birch Soya</p>	<p><u>In house documented methods incorporating manufacturers' instructions as required</u></p> <p>Phadia Immunocap 250 with manufacturer's instructions using SOP BB-IP-009 Immunocap 250</p>	QEHI



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Human tissues and Biological fluids (cont'd)  Serum          Serum	<p><b><u>Immunology examination activities for the purpose of clinical diagnosis</u></b></p> <p>RAST (specific IgE)</p> <p>Strawberry Timothy grass Tomato Tuna Walnut Wheat</p> <p>Total IgE</p> <p>Cyclic citrullinated protein (CCP)</p> <p>Tissue transglutaminase antibody (Ttg)</p> <p>Cardiolipin Abs</p> <p>Double stranded DNA</p> <p>Extractable Nuclear Antigen (ENA)</p> <p>Anti Neutrophil Cytoplasmic Antibody (ANCA), includes:</p> <ul style="list-style-type: none"> <li>• MPO antibody</li> <li>• PR3 antibody</li> </ul> <p>GBM Antibodies- Glomerular Basement membrane antibodies</p> <p>CTD Connective Tissue Disease</p> <p>Aspergillus Antibody</p>	<p><u>In house documented methods incorporating manufacturers' instructions as required</u></p> <p>Phadia Immunocap 250 with manufacturer's instructions using SOP BB-IP-009 Immunocap 250</p> <p>EIA Phadia Immunocap 250 with manufacturer's instructions using SOP BB-IP-009 Immunocap 250</p>	QEH



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Serum	Autoantibody screen:  Anti-nuclear antibodies (ANA) Anti-mitochondrial antibodies (AMA) Anti-smooth muscle antibodies (ASMA) Anti-liver kidney microsomal antibodies (ALKM) Anti-gastric parietal cell antibodies (AGPCA)  Anti-Neutrophil cytoplasmic Antibody (ANCA) screen (includes P-ANCA & C-ANCA)  Antinuclear antibody (Hep2 screen)	Helmed automated indirect Immunofluorescence with manufacturer's instructions using SOP BB-IP-020 automated IFA	
Serum/Urine	Abnormal/normal serum/urine proteins quantitation of paraprotein bands.	Gel electrophoresis Sepia Hydrasys with manufacturer's instructions using SOP BB-PP-3 using gel Electrophoresis and immunofixation BB-PP-4	
Serum/Urine	Identification of abnormal protein bands	SOP BB-PP-4 using Immunofixation	
Serum	Abnormal/normal serum/urine proteins, quantitation of paraprotein bands	Capillary zone electrophoresis Sebia CZE BB-PP-8	
Serum	IgA	Beckman Immage Nephelometry with manufacturer's instructions using SOP BB-PP-6	
	IgG		
	IgM		



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Serum	C3	Beckman Immage Nephelometry with manufacturer's instructions using SOP BB-PP-6	
	C4		
	A1 Antitrypsin		
	Haptoglobin		
	Ceruloplasmin		
	Transferrin		
Serum	B2 Microglobulin	Beckman Immage Nephelometry with manufacturer's instructions using SOP BB-PP-6	
Serum/Urine	Free light Chains	Binding site Spa Plus nephelometry BB-PP-7	
Blood	Cryoglobulins	visual technique using SOP BB-PP-5	

END