


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 8178</p> <p>Accredited to ISO 15189:2012</p>	University Hospital Southampton NHS Foundation Trust	
	Issue No: 006 Issue date: 06 February 2024	
	Department of Cellular Pathology MP002 Level E Pathology Block Southampton General Hospital Tremona Road Southampton SO16 6YD	Contact: Susan Shaw – Cellular Pathology Operations Manager Tel: +44 (0) 2381 205924 E-Mail: susan.shaw@uhs.nhs.uk
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address Department of Cellular Pathology Levels E & B Pathology Block Southampton General Hospital Tremona Road Southampton SO16 6YD</p> <p>Local Contact Susan Shaw Cellular Pathology Operations Manager Tel : +44 (0) 2381 205924 Email :susan.shaw@uhs.nhs.uk</p>	Histopathology Neuropathology Immunocytochemistry Non-Gynae Cytopathology Electron Microscopy	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>EUS & EBUS Clinics Endoscopy Department Level E Southampton General Hospital SO16 6YD</p> <p>Local Contact Sharon Kooner-Evans Tel: +44 (0) 2381204879 Sharon.kooner- evans@uhs.nhs.uk</p>	Assessment of adequacy of cellular material for diagnostic purposes.	B
<p>FNA Clinic Southampton General Hospital</p> <p>Local Contact Sharon Kooner-Evans Tel: +44 (0) 2381204879 Sharon.kooner- evans@uhs.nhs.uk</p>	Assessment of adequacy of cellular material for diagnostic purposes.	C
<p>MOHS Room CC162 Level C Max-fax outpatient clinic Southampton General hospital</p> <p>Local Contact Sharon Kooner-Evans Tel: +44 (0) 2381204879 Sharon.kooner- evans@uhs.nhs.uk</p>	micrographic surgery clinic service - Frozen section analysis of human tissue samples to aid in clinical assessment and diagnosis	D



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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
HUMAN BODY FLUIDS AND TISSUES	<u>Histopathology</u>		
	Preparation and examination to identify or exclude morphological & cytological abnormalities	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
Fresh frozen human tissue samples for Neuropathology only	Frozen section identification of:	<u>Cryotomy</u> Bright Cryostat LP 120 006	A
Fresh frozen human tissue samples		Leica CM1950 Cryostat Hand staining LP 103 002	A
Fresh frozen human skin, mucosal and conjunctival samples	Identification and detection of IgG, IgA and C3 antigens.	<u>Immunofluorescence</u> Sectioned using Leica cryostat CM1950. Stained on the Ventana BenchMark Ultra automated IHC staining platform; Documented in-house procedures LP 130 007 & LP 130 022 in conjunction with manufacturers instructions using Ventana BenchMark Ultra. LP103 009 Treatment of Specimens Requiring Immunofluorescence Studies	A
Formalin fixed tissue samples		<u>Specimen dissection</u> Manual methods LP 500 302	A



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HUMAN BODY FLUIDS AND TISSUES	<u>Histopathology</u>	<u>Tissue Processing</u>	
Formalin fixed tissue samples		Peloris II tissue processor Peloris III tissue processor LP 104 002, LP 104 004, LP 104 009, LP 104 011, LP 120 013 & LP 120 050	A
Fresh and formalin fixed tissue		Sakura VIP-6 for neuropathology only LP 104 002, LP 104 004, LP 104 009, LP 104 011, LP 120 013 & LP 120 050	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	
Formalin fixed tissue samples	X-Ray imaging	Faxitron PathVision	
Bone specimens	Dissection of bone specimens	Exact bone saw	A
		<u>Tissue embedding</u>	
Processed tissue samples		Leica & Thermo Fisher Embedding centres LP 104 004, LP 120 013, LP 120 050 & LP 108 007	A
		<u>Tissue sectioning (microtomy)</u>	
Formalin fixed paraffin embedded routine histopathology, and Neuropathology, tissues samples		Leica, Microm & Histocore Biocut Microtomes LP 105 001, LP 105 002 LP 108 008	A
Fresh frozen human tissue samples	Detection of Acetylcholinesterase (AChE) enzyme in paediatric bowel tissue	Manual staining method AchE using kit. LP 103 013 Acetyl Cholinesterase Staining (Hirschsprung Cases) AChE staining bench version	A
		<u>Routine staining</u>	
Formalin fixed paraffin embedded routine histopathology, and Neuropathology, tissues samples	Identification of basophilic and eosinophilic structures	Manual hand staining Or automated staining using Dako Coverstainer LEICA XL Autostainer LP 105 023 & LP 105 008 using Haematoxylin & Eosin stain	A



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Formalin fixed paraffin embedded routine histopathology, and Neuropathology, tissues samples</p>	<p><u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Detection of:</p> <p>Acid Mucopolysaccharides</p> <p>Acid & neutral mucins</p> <p>Calcium deposits</p> <p>Amyloid</p>	<p>Documented in-house methods</p> <p><u>Special staining</u></p> <p>Manual hand staining (M) or automated staining using Dako Artisan Link Pro (A) LP 106 048 using stain:</p> <p>Alcian blue (M) LP106 012</p> <p>Alcian Blue/ PAS Stain (A) LP 106 047</p> <p>Alizarin Red Stain (M) LP106 032</p> <p>Congo Red (A) LP 106 047</p>	<p>A</p>



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HUMAN BODY FLUIDS AND TISSUES (cont'd) Formalin fixed paraffin embedded routine histopathology, and Neuropathology, tissues samples	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u> Elastic tissue fibres, Muscle, collagen Mast cells Gram +/- organisms Fungi Basophilic and eosinophilic structures Elastic fibres and connective tissue Basement membranes Myelin & Nissl substance Melanin pigment Connective tissue Fibrin	Documented in-house methods <u>Special staining (cont'd)</u> Manual hand staining (M) or Dako Artisan Link Pro (A) (cont'd) EVG - Miller's Elastic Tissue Stain (M) LP106 006 Giemsa pH 5.0 (M) LP 106 040 Gram (M) LP 106 019 Grocott- Gomori Methenamine Silver (A) LP 106 047 H & E Rapid (M) LP106 001 Haematoxylin Van Gieson (M) LP106 003 Jones H&E Stain (M) LP 106 009 Kluver Barrera Stain (M) LP 120 018 Masson Fontana (M) LP106 025 Masson Trichrome (A) LP 106 047 MSB (M) LP106 018	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd) Formalin fixed paraffin embedded routine histopathology, and Neuropathology, tissues samples	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u> Hepatitis B surface antigen Elastic fibres PAS +ve substances eg: glycogen (and cells of pituitary) Removal of Glycogen Haemosiderin and ferric iron Removal of melanin pigment Reticulin Reticulin Copper Mycobacterium Leprae Helicobacter pylori	Documented in-house methods <u>Special staining (cont'd)</u> Manual hand staining (M) or Dako Artisan Link Pro (A) (cont'd) Orcein (M) LP106 039 Orcein Elastic Stain (M) LP106 007 Periodic Acid Schiff with and without diastase (A) LP 106 047 Periodic Acid Schiff Diastase (A) LP 106 047 Perls Prussian Blue (A) LP 106 047 Melanin Bleach (M) LP106 026 Untoned Reticulin method - Gordon & Sweets (A) LP 106 047 Toned Reticulin Method (M) LP 106 008 Rhodanine Stain (M) LP106 030 Wade-Fite (Modified ZN) (M) LP106 022 Warthin-Starry Stain (A) LP 106 047	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods (cont'd).	
Formalin fixed paraffin embedded routine histopathology, and Neuropathology, tissues samples	Tubercle bacilli (TB)	Manual hand staining (M) or Dako Artisan Link Pro (A) (cont'd) Ziehl-Neelsen (M) LP 106 021 <u>Immunocytochemistry</u>	A
Paraffin tissue sections of routine histopathology, and Neuropathology, tissue samples	Detection of:	Dako Autostainer Link 48 LP 130 007 & LP 130 027 using antibodies:	A
	Hepatic Tumours, histocytes	A-1-antitrypsin	
	Hepatocytes & germ cell tumour	Alpha foetal protein	
	Secondary Amyloid	AMYLOID A	
	Amyloid purified protein	Beta APP	
	Placenta and in certain trophoblastic tumors	Beta HCG	
	GI tumours / Pancreas	Ca19-9	
	Thyroid C cella and carcinoma	Calcitonin	
	Thymoma, T cell malignancies – lymphoma/leukemia	CD1a	
	T and B cells - leukemia	CD5	



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Formalin fixed paraffin embedded routine histopathology, and Neuropathology, tissues samples (cont'd)</p>	<p><u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Detection of (cont'd):</p> <p>B Cells</p> <p>Neuroectodermal cells & tumour</p> <p>T & B Cells</p> <p>Ductal and glandular epithelium</p> <p>B cells, lymphatic endothelium</p> <p>Hairy cell leukaemia</p> <p>Gastrointestinal stromal tumour</p> <p>Endothelial cells and megakaryocytes</p> <p>Blood proenzyme- platelets, histocytes, megakaryocytes</p> <p>Breast ca</p>	<p>Documented in-house methods</p> <p><u>Immunocytochemistry</u></p> <p>Dako Autostainer Link 48 LP 130 007 & LP 130 027 using antibodies:</p> <p>CD19</p> <p>CD57 (NK-1)</p> <p>CD45 (LCA, PD7-2B11)</p> <p>CK19</p> <p>D2-40</p> <p>DBA44</p> <p>DOG1</p> <p>FACTOR 8 (Von Willebrand Factor)</p> <p>FACTOR 13a</p> <p>GCDFP-15 Gross cystic disease fluid protein</p>	<p>A</p>



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	
Paraffin tissue sections of routine histopathology, and Neuropathology, tissue samples (cont'd)	Detection of (cont'd):	<u>Immunocytochemistry</u> Dako Autostainer Link 48 LP 130 007 & LP 130 027 using antibodies:	A
	Hepatocytes	Hepatocyte	
	Herpes simplex virus	HSV	
	IgG4 plasma cells, IgG4 disease	IgG4	
	Renal immunoglobulin	IgA	
	Renal immunoglobulin	IgD	
	Renal immunoglobulin	IgG	
	Renal immunoglobulin	IgM	
	Sex cord stromal tumours	INHIBIN	
	Mast Cells	Mast Cell Trypase (MCT)	
	Skeletal muscle	MYOGENIN	
	DNA mismatch repair enzyme	MLH1	
	DNA mismatch repair enzyme	MSH2	
	DNA mismatch repair enzyme	MSH6	
	Nuclei of myoblasts, fetal muscle	MYO D1	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	A
Paraffin tissue sections of routine histopathology, and Neuropathology, tissue samples (cont'd)	Detection of (cont'd):	<u>Immunocytochemistry</u> Dako Autostainer Link 48 LP 130 007 & LP 130 027 using antibodies:	
	Nuclei of myoblasts, fetal muscle	Myogenin	
	Neuroendocrine tissues	Neurofilament protein	
	Neuroblastoma	NB84	
	Neutophils	NP57	
	Glandular epithelium in prostate	PAP	
	Nuclear component over-expressed in some tumours	P53	
	Activated T-cells	PDL1	
	Non-small cell lung Ca, urothelial Ca, head and neck squamous cell Ca	PD-L1 (22C3)	
	Head and neck squamous cell Ca, melanoma	PD-L1 (28-8)	
	Protein in neuroendocrine cell+s	PGP9.5	
	Germ cell tumours	PLAP	
	DNA mismatch repair enzyme	PMS2	
	Smooth muscle myosin	SMMS-1	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	
Paraffin tissue sections of routine histopathology, and Neuropathology, tissue samples (cont'd)	Detection of (cont'd): Yolk sac tumour T and B cells in leukaemia	<u>Immunocytochemistry</u> Dako Autostainer Link 48 LP 130 007 & LP 130 027 using antibodies: SALL 4 TDT	A
Paraffin tissue sections of routine histopathology, and Neuropathology, tissue samples	Detection of Epithelial cells Lymphomas <u>Prostate Ca</u> Smooth muscle, myofibroblasts, myoepithelial cells Prostate Cytoplasmic Protein Scattered T cells in germinal centres and mantle zone B cells-follicular lymphoma	<u>Immunocytochemistry</u> Documented in-house procedures LP 130 007 & LP 130 029 in conjunction with manufacturers instructions using Dako Omnis and antibodies: AE1/AE3 ALK 1 AMACR ASMA 34 BE12 Beta Catenin BCL2	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	A
Paraffin tissue sections of routine histopathology, and Neuropathology, tissue samples (cont'd)	Detection of (cont'd)	<u>Immunocytochemistry</u> Documented in-house procedures LP 130 007 & LP 130 029 in conjunction with manufacturers instructions using Dako Omnis and antibodies:	
	lymphoma	BCL 6	
	Mesothelioma panel marker epithelial	BEREP4	
	B cells in lymphoma	BSAP (PAX5)	
	Ovarian tumours	CA125	
	Smooth muscle and sarcoma	CALDESMON	
	Mesothelial and lung tumours	CALRETININ	
	Pan t-lymphocytes	CD2	
	T cells in mantle zone	CD3	
	T cells	CD4	
	T cells	CD8	
	T cell malignancy	CD7	
	Childhood ALL, follicular lymphoma	CD10	
	Reed Sternberg cells, hodgkins and meso panel	CD15 Leu M1	
	B cells-lymphoma	CD20	
	B cells- dendritic cells	CD21	
	Lymphocytes in germinal centres	CD23	
	Reed Sternberg cells, hodgkins	CD30 (Ki1)	
	Endothelial cells- malignancy	CD31	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	A
Paraffin tissue sections of routine histopathology, and Neuropathology, tissue samples (cont'd)	Detection of (cont'd)	<u>Immunocytochemistry</u> Documented in-house procedures LP 130 007 & LP 130 029 in conjunction with manufacturers instructions using Dako Omnis and antibodies:	
	Vascular epithelium	CD34 (Q bend/10)	
	T cell lymphoma	CD43	
	Neuroectodermal cells, neurones, astrocytes	CD56	
	Megakaryocytes in trephines	CD61	
	Macrophages	CD68	
	B cells	CD79a	
	Ewings sarcoma	CD99 (MIC2)	
	GIST tumours	CD117 (c-kit)	
	B lymphocyte differentiation	CD138	
	Differentiation of carcinoids and metastatic adeno Ca	CDX-2	
	Neuroendocrine cells	CHROMOGRANIN	
	Squamous cell carcinoma	P40	
	T and B cells - Leukemia	CD5	
	prostate	CK5/6	
	ovarian	CK7	
	Cytoskeleton, epithelial cells	CK8/18	
	Cytoskeleton, epithelial cells	CK14	
	ovarian	CK20	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	A
Paraffin tissue sections of routine histopathology, and Neuropathology, tissue samples (cont'd)	Detection of (cont'd)	<u>Immunocytochemistry</u> Documented in-house procedures LP 130 007 & LP 130 029 in conjunction with manufacturers instructions using Dako Omnis and antibodies:	
	mantle cell lymphoma	CYCLIN D1	
	Cytomegalovirus	CMV	
	Smooth and striated muscle	DESMIN	
	Epithelial cell Ca	E-CADHERIN	
	Epithelial cells	EMA	
	Glial fibrillary acide protein	GFAP	
	Red blood cells & their precursors	Glycophorin	
	Melanocytes	HMB 45	
	Glial tumours	IDH-1	
	Proliferating cells	Ki67 (MIB1)	
	Kappa immunoglobulin light chain	Kappa	
	Kappa immunoglobulin light chain optimised for BMTs	KBMT	
	Lambda immunoglobulin light chain	Lambda	
	Lambda immunoglobulin light chain optimised for BMTs	LBMT	
	Melanocytes	MELAN A	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	A
Paraffin tissue sections of routine histopathology, and Neuropathology, tissue samples (cont'd)	Detection of (cont'd)	<u>Immunocytochemistry</u> Documented in-house procedures LP 130 007 & LP 130 029 in conjunction with manufacturers instructions using Dako Omnis and antibodies:	
	b cell lymphoma	MUM-1	
	Cytokeratin cocktail	MNF116	
	Granulocytes & monocytes	Myeloperoxidase	
	Myoepithelial cells	P63	
	Breast epithelium	Progesterone Receptor (PR)	
	Prostate neoplasm	PSA	
	Renal cell ca	RCC	
	Melanoma, glial cells	S100	
	Yolk sac tumour	SALL 4	
	Signal transducer and activator of transcription 6	STAT6	
	Protein in neuroendocrine cells	Synaptophysin	
	Lung and thyroid	TTF-1	
	Renal tumours, mesothelioma	WT1	



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	
Paraffin tissue section	Detection of: HER2 receptors/gene Epstein-Barr Virus Human papillomavirus positive cancer	<u>In-situ Hybridisation</u> Ventana BenchMark Ultra LP 130 007 & LP 130 022 using antibodies/probes: HER2-ICC EBER-ISH HPV-ISH	A
	Detection of: Non-small cell lung Ca Oestrogen Receptor Breast Ca, urothelial Ca Cervical Ca, head and neck Ca Epithelial cells and carcinoma Triple negative breast Ca, urothelial Ca Melanoma Expression of ROS1 fusion protein	<u>Immunocytochemistry</u> Documented in-house procedures LP 130 007 & LP 130 022 in conjunction with manufacturers instructions using Ventana BenchMark Ultra and antibodies: ALK D5F3 ER GATA3 P16 PAX-8 PD-L1 SP142 SOX 10 ROS1	
Paraffin sections of routine histopathology, and Neuropathology, tissue samples	Microscopic interpretation of thin tissue sections stained by manual immunohistochemical (IHC) techniques to demonstrate specific tissue components to aid diagnosis for the purposes of disease identification:	<u>Immunocytochemistry</u> Manual hand staining LP 120 026 using antibodies:	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Histopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	
Slides prepared in house from samples listed above	Alzheimers amyloid Morphological assessment and interpretation/diagnosis	Beta-Amyloid <u>Qualitative Microscopy</u> Nikon bright field microscopes TP 000 005	A
Fresh frozen human skin tissue samples	Frozen section analysis of human tissue samples to aid in clinical assessment and diagnosis	Skin samples frozen and embedded using Prestochill flash chiller. Frozen sections cut on the Leica CM1950 cryostat Frozen section slides stained using the Presto Pro automated staining platform. Slides analysed using Nikon microscope- model eclipse Ci-L Measurement principle: analysis of tissue for presence/absence of Basal cell carcinoma in skin samples. Procedure allows analysis of 100% of the margins. LP Mohs 006- SAMPLE COLLECTION SOP LP MOHS 003-Mohs SAMPLE PREP- EMBEDDING SOP LP MOHS 004- Cryotomy LP MOHS 005- Staining of MOHS slides on the Presto Pro LP MOHS 002 Maintenance of Mohs lab	D



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Diagnostic Cytopathology</u>		
Air-dried aspirated and voided human body fluids, fine needle aspirates (FNA's) and brushings.	Examination of cell preparations to identify or exclude cytological abnormalities for the purposes of diagnosis.	<u>Preparation of slides</u> Cytospin 4 LP 220 012 & LP 220 013 LP 108 014 LP120 019	A
Cytological smear preparations		<u>Manual staining:</u> LP 220 006 Using stain: Romanowsky stain	A
Cytological Brushing slide preparations, Fine needle aspirate slide preparations		Romanowsky stain	A, B & C
Cytological smear preparations, Sputum slide preparations, Body fluid slide preparations, Brushing slide preparations, Fine needle aspirate slide preparations, Bronchial Lavage slide preparations		<u>Automated staining</u> Leica Autostainer XL LP220 003 using Papanicolaou stain	A
Unstained wet-preparations of synovial fluid samples	Examination of Crystals in Synovial Fluid (M)	<u>Qualitative Microscopy</u> Nikon bright field microscopes TP 000 005	A
Wet-fixed aspirated and voided human body fluids, fine needle aspirates (FNA's) & brushings	Examination of cell preparations to identify or exclude cytological abnormalities for the purposes of diagnosis.	<u>Production of cell block</u> Manual preparation of cell blocks using "Cytoblock Kit" LP 220 018	A



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United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR UK

University Hospitals Southampton NHS Foundation Trust
Issue No: 006 Issue date: 06 February 2024

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 BODY FLUIDS AND TISSUES (cont'd)	<u>Cytopathology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in-house methods	
Slides prepared in house from samples listed above	Morphological assessment and interpretation/diagnosis	<u>Qualitative Microscopy</u> Nikon bright field microscopes TP 000 005	A
	<u>Electron microscopy examination activities for the purpose of clinical diagnosis</u>	Documented in-house methods	
	<u>Electron Microscopy</u>		
Glutaraldehyde fixed nasal and bronchial brushing samples	<u>Electron Microscopy for PCD diagnosis</u> Demonstration of ultrastructural components of ciliated epithelial cells	Preparation of samples for Electron Microscopy for PCD diagnosis, including fixation, dehydration, infiltration with resin of tissue samples. Cutting thick survey sections, staining and assessment of thick sections. Cutting and staining thin sections using Documented in-house procedures LP 400 026, LP 400 050, LP 400 020, LP 400 033, LP 400 032, LP 400 013, LP 400 027, LP 400036 using Reichert and Ultracut Ultramicrotomes	A
Glutaraldehyde Fixed Resin Embedded Tissue sections prepared as above	Morphological assessment and interpretation including quantification of defects in ciliary structure contributing to diagnosis of PCD. Production of micrographs suitable for diagnostic use.	Counting and analysing cilia in nasal and bronchial brushings for PCD (Primary Ciliary Dyskinesia) diagnosis, using Documented in-house procedures LP 400 057, LP400 031, LP 400 010 & LP 400 055 in conjunction with manufacturers instructions for staining using FEI Tecnai TEM and Hitachi H7700 TEM	A



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>Electron microscopy examination activities for the purpose of clinical diagnosis</u>	Documented in-house methods	
Formalin and glutaraldehyde fixed tissue samples	<u>Routine Diagnostic Electron Microscopy</u> Demonstration of ultrastructural components of renal, muscle, nerve and other tissues. Production of micrographs suitable for diagnostic use by Biomedical Imaging staff and their interpretation by consultant pathologists.	Receiving and Preparing diagnostic Specimens for EM Processing including fixation, dehydration, infiltration with resin of tissue samples. Cutting thick survey sections, staining and assessment of thick sections. Cutting and staining thin sections, using Documented in-house procedures LP 400 050, LP 400 020, LP 400 033, LP 400 032, LP 400 013, LP 400 027 & LP 400 036 in conjunction with manufacturers instructions for staining using Reichert and Ultracut Ultramicrotomes	A
Glutareldehyde Fixed Resin Embedded Tissue sections prepared as above	Morphological assessment and interpretation. Production of micrographs suitable for diagnostic use by Biomedical Imaging staff and their interpretation by consultant pathologists.	Taking Diagnostic TEM photographs, using Documented in-house procedures LP400 031, LP 400 010 & LP 400 055 in conjunction with manufacturer's instructions using FEI Tecnai 12 TEM and Hitachi H7700 TEM	A
END			