


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>8849</p> <p>Accredited to ISO 15189:2012</p>	<h3>Shrewsbury and Telford Hospital NHS Trust</h3> <p>Issue No: 006 Issue date: 28 January 2025</p>	
	<p>Department of Pathology Royal Shrewsbury Hospital Mytton Oak Road Shrewsbury SY3 8XQ</p>	<p>Contact: Victoria Banton Tel: +44 (0) 1743 261000 ex3720 E-Mail: victoria.banton@nhs.net Website: www.sath.nhs.uk/wards-services/az-services/pathology/</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details: Department of Cellular Pathology	Activity		
<table border="0"> <tr> <td>Address: Department of Cellular Pathology Royal Shrewsbury Hospital Mytton Oak Road Shrewsbury SY3 8XQ</td> <td>Local contact Victoria Banton</td> </tr> </table>	Address: Department of Cellular Pathology Royal Shrewsbury Hospital Mytton Oak Road Shrewsbury SY3 8XQ	Local contact Victoria Banton	Histopathology Rapid frozen section for intra-operative diagnosis Diagnostic Cytopathology
Address: Department of Cellular Pathology Royal Shrewsbury Hospital Mytton Oak Road Shrewsbury SY3 8XQ	Local contact Victoria Banton		

On / off site activities performed away from the locations listed above:

Location details	Activity		
<table border="0"> <tr> <td>Mortuary Royal Shrewsbury</td> <td>Victoria Banton (as above)</td> </tr> </table>	Mortuary Royal Shrewsbury	Victoria Banton (as above)	Body Store and Mortuary
Mortuary Royal Shrewsbury	Victoria Banton (as above)		
<table border="0"> <tr> <td>Mortuary Princess Royal Hospital</td> <td>Victoria Banton (as above)</td> </tr> </table>	Mortuary Princess Royal Hospital	Victoria Banton (as above)	Body Store
Mortuary Princess Royal Hospital	Victoria Banton (as above)		
<table border="0"> <tr> <td>Radiology Head & Neck Clinic Princess Royal Hospital</td> <td>Victoria Banton (as above)</td> </tr> </table>	Radiology Head & Neck Clinic Princess Royal Hospital	Victoria Banton (as above)	FNA material/slide preparation
Radiology Head & Neck Clinic Princess Royal Hospital	Victoria Banton (as above)		



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>HUMAN TISSUES AND FLUIDS</p> <p>Tissue samples: Formalin fixed, fresh and frozen, including Bone Marrow trephines Non-gynae cytology cell blocks</p>	<p><u>Histopathology</u></p> <p>Preparation and examination of tissue samples to identify or exclude morphological & cytological abnormalities</p> <p>Specimen dissection and biopsy transfer</p> <p>Decalcification of bony samples prior to histopathological examination</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Macroanalysis and dissection</u> Manual method using: HISurgCutUp HISBMSCutUp HISCutUP CPPrintMate TURPSampling ThermoFisher PrintMate</p> <p><u>Decalcification</u> Manual method using: HISDecal</p> <p><u>Tissue Processing</u> Automated method using: HISProcessing HISExcelcior and: Thermo Fisher Excelcior</p> <p><u>Embedding</u> Manual method using: HISEmbed and: Sakura Tissue Tek V Thermo Scientific Histostar Embedding centre</p> <p><u>Microtomy</u> Manual method using: HISMicrotomy HISMegaBlock HISSpares and: Leica RM2235</p>



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HUMAN TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd) Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)
Frozen tissue	Identification of nuclei, cell cytoplasm and connective tissue in cells and tissues for the purposes of clinical diagnosis using Haematoxylin and Eosin	<u>Rapid frozen section</u> Cryotomy and manual staining method using: HISStainRapidHE and: Leica CM 1860
Fresh tissue: Renal	Attendance at ultrasound guided renal biopsy to confirm adequacy of sample and ensure use of appropriate fixative	<u>Renal Biopsy Procedure</u> CPRenalBX using Wild Heerbugg M32 Dissecting Microscope
Formalin fixed, paraffin embedded (FFPE) tissue	Identification of nuclei, cell cytoplasm and connective tissue in cells and tissues for the purposes of clinical diagnosis using Haematoxylin and Eosin	<u>Routine Haematoxylin & Eosin (H&E) staining and coverslipping</u> Automated method using: HISAutoStain HISCoverslip and: Leica Autostainer XL Leica Coverslipper CV5030
Formalin fixed, paraffin embedded (FFPE) tissue	Detection of the following: Acid and sulphated mucins Acid and neutral mucins Neutral mucins and fungi Differentiating between haemopoietic cells	<u>Special staining</u> Manual methods using: HISSpecial CPSSControls and the following stains: Alcian Blue Technique using HISStainAB (Diastase) Alcian Blue PAS Using HISStainABPAS (Diastase) Periodic Acid Schiff's HISStainDPAS Giemsa HISStainGIEM



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>FFPE tissue (cont'd)</p>	<p><u>Histopathology</u> (cont'd)</p> <p>Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)</p> <p>Detection of the following: (cont'd)</p> <p>Amyloid</p> <p><i>Helicobacter pylori</i> identification</p> <p>Differentiating between Gram positive and Gram negative microorganisms</p> <p>Fungi</p> <p>All tissue structures</p> <p>Melanin (and removal of pigment prior to staining)</p> <p>Collagen and smooth muscle</p> <p>Connective tissue and fibrin</p> <p>Elastic fibres</p> <p>Copper associated protein</p> <p>Basement membranes</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Special staining</u> (cont'd)</p> <p>Congo Red HISStainCR</p> <p>Giemsa for Helicobacter HISStainGiemsaHP</p> <p>Gram with Twort Counterstain for Bacteria HISStainGrmTwt</p> <p>Grocott's Method for Fungi HISStainGroc</p> <p>Haematoxylin and Eosin Stain HISStainHE</p> <p>Mallory Bleach for Melanin HISStainMalBleach and Masson Fontana for Melanin HISStainMasFont</p> <p>Masson Trichrome HISStainMasTri</p> <p>Martius, Scarlet, Blue (MSB) HISStainMSB</p> <p>Miller's Elastin Stain HISStainMillers</p> <p>Orcein for Copper Associated Protein HISStainOrcein</p> <p>PA Silver HISStainPASilver</p>



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FFPE tissue (cont'd)	Detection of the following: (cont'd)	<u>Special staining</u> (cont'd)
	Haemosiderin	Perls Prussian Blue for Ferric Iron HISStainPerls
	Reticulin fibres	Gordon & Sweet's Method for Reticulin HISStainRetic
	Mast cells	Toluidine Blue for Mast Cell Granules HISStainTolBlue
	Connective tissue	Van Gieson Method HISStainVG
	Calcium salts	Von Kossa HISStainVKossa
	Atypical Mycobacterium	Wade Fite HISStainWF
	Spirochaetes	Warthin- Starry for Spirochaetes HISStainWarStar
	Acid fast bacilli, e.g. <i>M. tuberculosis</i>	ZN Stain for Acid Fast Bacilli Using HISStainZN



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FFPE tissue	Detection of the following:	<u>Immunohistochemistry</u> Automated methods using: IPBondMax and IPPrimaryABS and: Leica Bond III Immunostainer and the following antibodies
	Pan cytokeratin	AE1/AE3
	Germ tumours	AFP
	Anaplastic lymphoma kinase	ALK-1
	Prostate grading	AMACR
	Colon adenocarcinoma	B-CATENIN
	Mantle zone B lymphocytes, interfollicular T lymphocytes	Bcl-2
	Germinal centre B lymphocytes	Bcl-6
	Epithelial cell types, basal cell carcinoma	Ber-EP4
	Malignant epithelial cells	CA125
	Glandular cells	CAM 5.2
	Parafollicular C cells thyroid	Calcitonin
	Mesothelioma marker	Calretinin
	Langerhan's cells, interdigitating reticulum cells	CD1a
	T lymphocytes	CD3



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FFPE tissue (cont'd)	Immunohistochemistry to detect the following: (cont'd) T lymphocytes (helper and inducer) Germinal centre T lymphocytes, some B Suppressor/ cytotoxic T cells Mature B lymphocytes, renal cell carcinoma Hodgkin and Reed Sternberg B lymphocytes B lymphocytes, some T lymphocytes Hodgkin and Reed Sternberg cells. Plasma cells Endothelial cells, plasma cells, activated B and T cells Endothelial cells, fibroblasts, haemopoietic precursor cells Peripheral nerves, NK cells, neuroendocrine differentiation Macrophages, monocytes, granulocytes Mast cells, marker for GIST	<u>Immunohistochemistry</u> (cont'd) CD4 CD5 CD8 CD10 CD15 CD20 CD23 CD30 CD31 CD34 CD56 CD68 CD117



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FFPE tissue (cont'd)	<u>Immunohistochemistry</u> to detect the following: (cont'd) Glandular and ductal epithelia Cell nuclei expressing oestrogen, normal glands and neoplastic cells Papillary carcinoma differentiation Identifies breast carcinomas and urothelial carcinomas Placental trophoblasts Melanoma, melanocyte differentiation Sertoli cells, sex chord stromal tumour Marker of proliferation B and T lymphocytes Normal, activated and neoplastic melanocytes Multiple myeloma oncogene Thyroid, renal, Mullerian and thymic tumours Normal proliferating cells, basal cells	<u>Immunohistochemistry</u> (cont'd) EMA ER Galactin-3 GATA-3 HCG HMB45 Inhibin Ki67 LCA Melan-A MUM-1 PAX8 p63



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FFPE tissue (cont'd)	<u>Immunohistochemistry</u> to detect the following: (cont'd) Germ cell tumours Nuclei of cells showing progesterone receptor expression Prostate secretory and ductal epithelia Schwann cells, nerve processes, normal and neoplastic melanocytes Smooth muscle and myoepithelial cells Smooth muscle and myoepithelial cells Neuroendocrine cells Thyroglobulin containing cells Thyroid transcription factor-1, lung tumours Cells of mesenchymal origin Epithelial cells and serous ovarian adenocarcinoma	<u>Immunohistochemistry</u> (cont'd) PLAP PR PSA S100 SMA SMM Synaptophysin Thyroglobulin TTF-1 Vimentin WT-1



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Slides prepared in-house from sample types listed above	Morphological assessment and interpretation/diagnosis	<u>Microscopy (qualitative analysis)</u> In-house procedures: CPConsReporting CPLightMicroSOP using: Laborlux S Leica DM2000 Leica DM3000 Leica Diaplan Nikon Eclipse NiU 401 Nikon Eclipse 80i Nikon Eclipse E400 Olympus BX51
Fresh, frozen tissue of renal, skin and mucosal biopsies	<u>Direct Immunofluorescence</u> Identification of antibodies in various autoimmune diseases	Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)
	Gamma chains of human IgG	<u>Immunofluorescence and fluorescent microscopy</u> Manual in house procedure using: DIFProcedure DIFPipette IgG/ FITC
	Mu chain of human IgM	IgM/ FITC
	Alpha chains of human IgA	IgA/ FITC
	Native C3	C3/ FITC
	Conjugated antibodies	C1q/FITC



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<p>HUMAN TISSUES AND FLUIDS (cont'd)</p> <p>Slides prepared in-house from sample types listed above</p> <p>Body fluids: Cerebrospinal fluid (CSF) Urine General body fluids Bronchial brushings & washings Sputum</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination of tissue samples to identify or exclude morphological and cytological abnormalities (cont'd)</p> <p>Morphological assessment and interpretation/diagnosis</p> <p><u>Examination of non-gynaecological specimens for the purpose of clinical diagnosis</u></p> <p>The examination of body fluid/ FNA samples to exclude or identify morphological and cytological abnormalities</p> <p>Staining of slides prepared as above for examination of body fluid/ FNA samples to exclude or identify morphological and cytological abnormalities</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Fluorescent microscopy (qualitative analysis)</u> Following in-house procedures:</p> <p>DIFPhoto using Leitz Laborlux S with UV lamp housing</p> <p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>Preparation of direct smears and cytospin slides using :</p> <p>CYTNGSpecs CYTFluids CYTBronch CYTCSF CYTEUS&EBUS CYTUrine CYTSputum CYTHistopaque CYTImmuno and Class II Telstar Bio II-A Microbiological safety cabinet Thermo Fisher Cytospin 4</p> <p>Automated Papanicolaou staining method using :</p> <p>CYTPapStain and Thermo Fisher Raymond Lamb Stainmate Myreva SS-30 staining machine CYTPAPSTAIN</p>



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END		