


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS</b> MEDICAL 8544</p> <p>Accredited to ISO 15189:2022</p>	<p><b>Lancashire Teaching Hospitals NHS Foundation Trust</b></p> <p>Issue No: 013 Issue date: 20 March 2026</p>	
	<p>Department of Cellular Pathology Royal Preston Hospital Sharoe Green Lane Fulwood Preston PR2 9HT</p>	<p>Contact: Dawn Dixon Tel: +44 (0) 1772 522153 E-Mail: Dawn.Dixon@lthtr.nhs.uk Website: <a href="http://www.lancsteachinghospitals.nhs.uk">http://www.lancsteachinghospitals.nhs.uk</a></p>
<p>Testing performed at the above address only</p>		

### 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>Fixed, fresh and frozen tissue including excisional and incisional biopsies and surgical resection specimens</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Specimen Dissection</u></p> <p>Specimen Decalcification and Softening SP300 Microwave Fixation SP360 Cutting Calcified Bone SP381 Writing Up at Cut Up SP386 Slicing Mastectomy Specimens for Fixation SP520 Faxitron Operation SP603 Cut Up of Upper GI SP417 Cut Up of Cystectomies SP419 Cut Up of Breast SP420 Cut Up of Head and Neck SP422 Cut Up of Placenta SP424 Cut Up of Colorectal Cancer SP425 Cut Up of GI (non-neoplastic) SP426 Cut Up of Testis SP430 Cut Up of Gynae SP433 Cut Up of Lympho-reticular SP435 Cut Up of Prostatectomy SP437 Cut Up of Skin SP513 Cut Up of RPOC SP514 Cut Up of Urogenital SP591 Cut Up of Endocrine SP635 Cut Up of Kidney SP644 Cut Up of Femoral Heads/Bone SP654 Smalls SP681</p>



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<p><b>HUMAN TISSUES AND FLUIDS</b></p> <p>Fixed, fresh and frozen tissue including excisional and incisional biopsies and surgical resection specimens</p> <p>Formalin- fixed and processed tissue (to paraffin wax) including excisional and incisional biopsies and surgical resection specimens</p> <p>FFPE (Formalin fixed paraffin embedded) tissue</p> <p>Frozen Tissue</p>	<p>Histopathological examination activities for the purposes of clinical diagnosis</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Tissue Processing</u> Peloris II and Peloris 3 Tissue Processor SP331</p> <p><u>Tissue Embedding</u> Arcadia Histocore embedding centre and cold plate x 2 Leica EG1150 H SP309 Embedding</p> <p><u>Microtomy</u> General Laboratory: 1. Leica RM2235 2. Leica Histocore Biocut Neuropathology: 1. Leica RM2235 2. Leica RM2255 Immunohistochemistry: 1. Leica RM2245 2. Leica Histocore Biocut SP296 TP03 Microtomy</p> <p><u>Microtomy</u> CM1950 Leica Cryostat SOP SP 105 Using the cryostat</p>



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HUMAN TISSUES AND FLUIDS	Histological and Cytological examinations to assist in clinical diagnosis	Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:
Formalin- fixed paraffin embedded tissue sections on microscope slides	For demonstration of general tissue architecture including basophilic and eosinophilic structures	<u>Haematoxylin and Eosin Staining</u> Manual Technique SP10 Automated Technique using Leica CV5030 Autostainer SP376 TP19 Stainer/Coverslipper TP42 Histology IQC
Frozen Tissue	For demonstration of general tissue architecture including basophilic and eosinophilic structures	<u>Haematoxylin and Eosin Staining</u> Manual Technique SP10 <u>TP11 Routine use of the Cryostat</u>
Formalin- fixed paraffin embedded tissue sections on microscope slides	For demonstration of:	<u>Special Stains</u> Manual Techniques TP48, TP49 +/- Automated Technique using Ventana Benchmark TP43 and the following SOPs (M- Manual, A- Automated)
	Acid Mucopolysaccharides	SP2 (M) Alcian Blue
	Amyloid	SP4 (M) Congo Red Improved Method
	Elastic tissue fibres	SP6 (M) Miller's Elastic Van Gieson (EVG)
	Gram positive and Gram negative organisms	SP48 (M) Gram-Twort
	Fungi	SP9 (A) Grocott- Gomori Methenamine Silver
	General tissue architecture including basophilic and eosinophilic structures	SP11 (M) Rapid H&E



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Formalin- fixed paraffin embedded tissue sections on microscope slides</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For demonstration of:</p> <p>Melanin pigment</p> <p>Connective tissue</p> <p>Fibrin</p> <p>Hepatitis B surface antigen</p> <p>PAS positive structures e.g. glycogen, cells of pituitary</p> <p>Haemosiderin and ferric iron</p> <p>Reticulin fibres</p> <p>Metachromatic substances</p> <p>Calcium</p> <p>Tubercle bacilli (TB)</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Special Stains</u> Manual Techniques TP48, TP49 +/- Automated Technique using Ventana Benchmark and the following SOPs:</p> <p>SP16 (M) Masson Fontana</p> <p>SP54 (M) Masson Trichrome</p> <p>SP18 (M) Martius Scarlet Blue (MSB)</p> <p>SP67 (M/) Orcein</p> <p>SP21 (MA) Periodic Acid Schiff (PAS) +/- Diastase</p> <p>SP23 (A) Perl's Prussian Blue</p> <p>SP26 (A) Gordon &amp; Sweet's Reticulin Method</p> <p>SP88 (M) Toluidine blue</p> <p>SP89 (M) Von Kossa</p> <p>SP28 (M) Ziehl- Neelsen (ZN)</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Formalin- fixed paraffin embedded tissue sections on microscope slides</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For demonstration of:</p> <p>Epithelial cells</p> <p>Hepatocytes and germ cell tumour</p> <p>Lymphoma</p> <p>Secondary amyloid</p> <p>Prostate</p> <p>Scattered T cells in germinal centres and mantle zone B cells- follicular lymphoma</p> <p>Lymphoma</p> <p>Mesangium or glomerular basement membrane in e.g. SLE</p> <p>Renal complement</p> <p>Clear cell v renal cell carcinoma</p> <p>GI tumours/ Pancreas</p> <p>Thyroid C cells and carcinoma</p> <p>Smooth muscle and sarcoma</p> <p>Mesothelial and lung tumours</p> <p>Cytokeratin low MWT</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Immunohistochemistry</u> using Leica Bond III Immunostainer SP605, SP615 and the following antibodies:</p> <p>AE1/AE3</p> <p>Alphafetoprotein</p> <p>ALK1</p> <p>Amyloid A</p> <p>34 BE12</p> <p>BCL2</p> <p>BCL6</p> <p>C1q</p> <p>C3c</p> <p>CAIX</p> <p>Ca19-9</p> <p>Calcitonin</p> <p>CALDESMON</p> <p>CALRETININ</p> <p>CAM 5.2</p>



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Formalin- fixed paraffin embedded tissue sections on microscope slides	For demonstration of:  Cortical thymocytes, Langerhans cells, Interdigitating cells of dermis  T Cells in mantle zone  T Cells  T and B cells- leukaemia  T Cell malignancy  T Cells  Childhood ALL, follicular lymphoma  Reed Sternberg cells, Hodgkin's and meso panel  B Cells - lymphoma  B Cells- dendritic cells  Lymphocytes in germinal centres  Reed Sternberg cells, Hodgkin's  Endothelial cells- malignancy  Vascular epithelium  Breast and lung carcinoma  Neuroectodermal cells, neurones, astrocytes,  Macrophages	<u>Immunohistochemistry</u> using Leica Bond III Immunostainer SP605, SP615 and the following antibodies: CD1a  CD3  CD4  CD5  CD7  CD8  CD10  CD15 Leu M1  CD20  CD21  CD23  CD30 (Ki)  CD31  CD34 (Q bend/10)  CD44  CD56  CD68



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HUMAN TISSUES AND FLUIDS  Formalin- fixed paraffin embedded tissue sections on microscope slides	Histological and Cytological examinations to assist in clinical diagnosis  For demonstration of:  B Cells Ewing's sarcoma GIST tumours B Lymphocyte differentiation Epithelial malignancy Prostate Ovarian Ductal and glandular epithelium Ovarian Mantle cell lymphoma Smooth and striated muscle GIST tumours Epithelial cell carcinoma Epithelial cells Breast Ca diagnosis Breast Ca	Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:  <u>Immunohistochemistry</u> using Leica Bond III Immunostainer SP605, SP615 and the following antibodies:  CD79a CD99 (MIC2) CD117 (C-KT) CD138 CEA CK5/6 CK7 CK19 CK20 CYCLIN D1 DESMIN DOG-1 E-CADHERIN EMA GATA3 GCDFP-15 Gross cystic disease fluid protein



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Formalin- fixed paraffin embedded tissue sections on microscope slides	For demonstration of:	<u>Immunohistochemistry</u> using Leica Bond III Immunostainer SP605, SP615 and the following antibodies:
	Hepatocellular carcinoma and Yolk sac tumours	Glypican
	Mesothelial cells	HBME-1
	Germ cell tumours	HCG
	Hepatocytes	HeppAR1
	Herpes virus type 8	HHV8-LNA
	B Cells	HLA (MHC)
	Melanocytes	HMB 45
	Herpes simplex virus	HSV
	Renal	IgA
	Renal	IgG
	Renal	IgM
	Light chains	KAPPA
	Light chain	LAMBDA
	Lymphoid	LCA (CD45 PD7-2B11)
	Breast Ca	Mammaglobin
	Melanocytes	MELAN A
	B Cell lymphoma	MUM-1



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HUMAN TISSUES AND FLUIDS  Formalin- fixed paraffin embedded tissue sections on microscope slides	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For demonstration of:</p> <p>Lymphatic endothelium, mesothelial cells, reticular cells, follicular dendritic cells, ovarian and testicular germ cells</p> <p>Breast</p> <p>Prostate neoplasm</p> <p>Renal cell ca</p> <p>Melanoma, glial cells</p> <p>Smooth muscle</p> <p>Smooth muscle myosin</p> <p>Melanoma marker- especially spindle cell type</p> <p>Thyroid</p> <p>Lung and thyroid</p> <p>Cells of mesenchymal origin</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Immunohistochemistry</u> using Leica Bond III Immunostainer SP605, SP615 and the following antibodies:</p> <p>Podoplanin</p> <p>PROGESTERONE- AB Leica</p> <p>PSA</p> <p>RCC</p> <p>S100</p> <p>SMA</p> <p>SMM</p> <p>SOX-10</p> <p>THYROGLOBULIN</p> <p>TTF-1</p> <p>VIMENTIN</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>FFPE (Formalin fixed paraffin embedded) tissue sections</p> <p>FFPE (Formalin fixed paraffin embedded) tissue sections</p>	<p>Histopathological examination activities for the purposes of clinical diagnosis</p> <p>Immunohistochemistry to detect the following:</p> <p>Her2 expression</p> <p>Proteins that are expressed in the nucleus of normal proliferating cells</p> <p>Breast HER2 receptor status</p>	<p>Roche Benchmark Ultra and Ultra Plus Immunostainer SOP SP 630. SP 631</p> <p>HER2 (4b5)</p> <p>MMR Panel: MLH-1, PMS-2, MSH-2, MSH-6 plus negative control</p> <p>Dual <i>in situ</i> hybridisation (DDISH) SOP SP630</p>



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HUMAN TISSUES AND FLUIDS	Histological and Cytological examinations to assist in clinical diagnosis	Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:
Formalin- fixed paraffin embedded tissue sections on microscope slides	For demonstration of:	<u>Neuropathology</u> Manual Staining with reference to: TP24 Nerve, TP25 Pituitary, TP48 Neuro special stains
	Plaques and tangles	SP3 Bielschowsky Stain- modified
	Myelin	SP14 Luxol Fast Blue
	Myelin and other CNS structures	SP15 Luxol fast Blue H&E
	Neurones	SP19 Nissl Demonstration
Frozen Sections	Mitochondrial complexes	SP42 Gomori Trichrome Stain
Frozen Sections	Lipids	SP27 Sudan Black for Lipids
Frozen Sections	For demonstration of:	<u>Neuropathology</u> Enzyme Histochemistry using manual staining with reference to the following antibodies: TP23 Muscle
	Lysosomes in muscle	SP66 Acid Phosphatase
	Mitochondrial complexes	SP38 Cytochrome Oxidase
	Mitochondrial complexes	SP41 Cytochrome Oxidase and SDH
	Fibre typing	SP46 Myoadenylate Deanimase
	Fibre typing	SP57 Myosin ATPase
	Fibre typing	SP56 NADH for Type 1 Fibres



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Frozen Sections	For demonstration of:	<u>Neuropathology</u> Enzyme Histochemistry using manual staining with reference to the following antibodies: TP23 Muscle
	Phosphorylase activity	SP59 Phosphorylase
	Stain- glycogen	SP61 PAS for Muscle Biopsies
	Phosphofructokinase and aldolase activity	SP64 Phosphofructokinase and Aldolase
	SDH Activity	SP66 Succinic Dehydrogenase
Formalin- fixed paraffin embedded tissue sections on microscope slides	Myelin	SP78 Kultschitsky
	Connective tissue	SP79 Goldner's Trichrome
	Myelin	SP80 Solochrome Cyanine



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Frozen Sections</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>For localisation of proteins in muscle</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Neuropathology</u> Immunohistochemistry using SP90 manual staining with reference to the following antibodies:</p> <p>Adhalin</p> <p>B Dystroglycan - frozen</p> <p>Dysferlin</p> <p>Dystrophin 1</p> <p>Dystrophin 2</p> <p>Dystrophin 3</p> <p>Emerin</p> <p>Merosin 300</p> <p>Spectrin</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Renal Biopsies</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Electron Microscopy</u> Electron Microscopy (EM) Preparation with reference to the following:</p> <p>SP-451 Collecting Specimens for EM</p> <p>SP-473 Processing EM Tissues</p> <p>SP-404 Embedding EM Specimens</p> <p>Leica EM UC7 R Ultra Microtome SP-403</p> <p>Jeol Jem 1400 Electron Microscope SP-481</p> <p>SP-622 Training Log for ICC-EM</p> <p>SP-413 Filing of EM Grids, Blocks and Slides</p> <p>TP-17 Operation of Ultramicrotome</p> <p>TP-52 Embedding and Processing</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Surgical Biopsies</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>Examination of tissues to identify or exclude ultrastructural morphological abnormalities for the purpose of diagnosis</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Electron Microscopy</u> Electron Microscopy Viewing with reference to the following:</p> <p>SP-481 Operation of Transmission Electron Microscope (including reporting)</p> <p>SP-624 Electron Microscopy Checking</p> <p>TP-16 Operation of Transmission Electron Microscope</p>



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<p>HUMAN TISSUES AND FLUIDS</p> <p>Diagnostic Cytology Samples including fluids, FNAs and Brushings</p> <p>Alcohol- Fixed Cytological Preparations on Microscope Slides</p> <p>Alcohol- Fixed Cytological Preparations on Microscope Slides</p>	<p>Histological and Cytological examinations to assist in clinical diagnosis</p> <p>Differentiation of cell types and identification of normal and abnormal cells</p> <p>Differentiation of cell types and identification of normal and abnormal cells</p>	<p>Macroscopic and Microscopic Examination using documented in house methods and manufacturers' instructions for:</p> <p><u>Diagnostic Cytology</u></p> <p>Preparation of NG cytology samples</p> <p>Preparation of slides for staining using Shandon Cytospin or smear</p> <p>SP 215 Megafuge SP 239 Specimen reference sheet SP 176 Bronchial Lavage SP 177 Bronchial Wash SP 188 CSF SP 191 Cyst Fluid SP 210 FNA SP 219 Lap Peritoneal Wash SP 313 Serous Fluid SP 343 Sputum SP 352 Urine SP 629 Sputum Diff Count SP 629 Synovial fluid SP 338 Slide spread method SP 195 Cytospin Method</p> <p><u>Diagnostic Cytology</u> <u>Staining NG Cytology slides</u> SP511 Staining of Cytological Preparations using Stainmate for: TP27 Non Gynae Cytology Prep</p> <p>Haematoxylin and Eosin Stain</p> <p>Papanicolaou Stain</p>



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Alcohol- Fixed Cytological Preparations on Microscope Slides	Differentiation of cell types and identification of normal and abnormal cells	<u>Myreva Linear Stainer SOP SP 660</u> Haematoxylin and Eosin Stain
Alcohol- Fixed Cytological Preparations on Microscope Slides	Differentiation of cell types and identification of normal and abnormal cells	Papanicolaou Stain
Air- Dried Cytological Preparations on Microscope Slides	Differentiation of cell types	<u>Diagnostic Cytology</u> SP607 Giemsa Rapid Stain Kit
Diagnostic Cytology Samples including fluids, FNAs and Brushings		<u>Diagnostic Cytology</u> SP347 Preparing Thromboplastin Clots
Stained Tissue Sections/ Stained Cytological Preparations including Histology, Neuropathology and Diagnostic Cytology	Microscopic identification of cellular structures and abnormality for the purpose of clinical diagnosis.	<u>Consultants and BMS Reporting</u> Reporting of Cellular Pathology Samples SP 661 Using the Consultant Workplace in SWL to report Cellular Pathology Specimens SP 706 DDish interpretation
END		