


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>8661</b> <b>Accredited to ISO 15189:2022</b>	<b>Great Ormond Street Hospital for Children NHS Foundation Trust</b>	
	<b>Issue No:</b> 008 <b>Issue date:</b> 17 January 2025	
	<b>Department of Histopathology</b> Floor 3 Camelia Botnar Laboratories 85 Lambs Conduit Street, London WC1N 3NN	<b>Contact: Professor Thomas Jacques</b> <b>Tel:</b> +44 (0)2078298663 <b>Website:</b> <a href="https://www.gosh.nhs.uk/wards-and-departments/departments/laboratory-medicine/">https://www.gosh.nhs.uk/wards-and-departments/departments/laboratory-medicine/</a>
<b>Testing performed at the above address only</b>		

### Additional site activity performed away from the laboratory

Location details	Activity
Mortuary and Body Store Floor 0 Camelia Botnar Laboratories Great Ormond Street Hospital for Children Great Ormond Street London WC1N 3JH	Storage of Bodies Record Keeping (body identification and audit trail)



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN TISSUE AND BODY FLUIDS	<u>Histopathology examination activities for the purpose of diagnosis</u>	Macroscopic and Microscopic examination. Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin fixed tissue	Macroscopic description	Biopsy transfer and Specimen Dissection SSOP 01.105SSOP C0001
	Tissue processing (inc. decalcification)	Tissue processing as per Manufacturer's instructions for Leica Peloris II and III in conjunction with documented procedures: SSOP 01.102
Formalin fixed paraffin impregnated tissue	Tissue orientation and embedding	Tissue embedding as per Manufacturer's instructions for Sakura Tissue Tek 5 Embedding Console System in conjunction with documented procedures: SSOP 01.101
Formalin Fixed Paraffin Embedded Tissue (FFPE)	Tissue sectioning	Tissue sectioning as per Manufacturer's instructions for Leica RM2245, Leica HistoCore MULTICUT and in conjunction with documented procedures: SSOP 01.101
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides	Routine H&E staining for tissue architecture and nuclear detail (identification of basophilic and eosinophilic structures)	Manufacturer's instructions for Leica CV 5030 Autostainer in conjunction with documented procedures: SSOP 01.101



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HUMAN TISSUE AND BODY FLUIDS (cont'd)	<u>Histopathology examination for the purpose of diagnosis</u> (cont'd)	Macroscopic and Microscopic examination. Documented in house methods incorporating manufacturers' instructions where relevant:
Fresh Tissue	Snap freezing and Frozen Section	Manufacturer's instructions for Leica CM1860 UV cryostat in conjunction with documented method: SSOP 01.104
Frozen Sections on glass slides	Histochemical staining for the identification of: :  Eosinophilic and basophilic structures for morphological assessment  Fats and lipids  Acetylcholinesterase	Manual staining methods using in house documented procedures:  Rapid H&E SSOP 01.101  Oil red O SSOP 06.99  AChE SSOP 11.99
Fresh tissue smear	Morphological assessment	Toluidine Blue SSOP01.106
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides	Histochemical staining for the identification of:  Weakly sulphated and acidic mucins  Acidic and neutral mucins  Amyloid  Elastic fibres and connective tissue  Haematopoietic cells and <i>Helicobacter pylori</i> -like organisms	Manual staining methods using in house documented procedures and the following stains:  Alcian Blue (AB) technique SSOP 06.99  Alcian Blue Periodic Acid-Schiff (AB PAS) technique SSOP 06.99  Congo Red technique SSOP 06.99  Elastic van-Gieson (EVG) (Miller's) technique SSOP 06.99  Modified Giemsa techniques SSOP 05.24



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HUMAN TISSUE AND BODY FLUIDS (cont'd)	<u>Histopathology examination for the purpose of diagnosis</u> (cont'd)	Manual staining methods using in house documented procedures and the following stains cont'd:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	Detection of bacteria	Gram stain SSOP 06.99
	Detection of fungi	Grocott SSOP 06.99
	Myelin sheaths	Luxol Fast Blue SSOP 06.99
	Fibrin	Martius Scarlet Blue (MSB) SSOP 06.99
	Melanin and argetaffin granules	Masson Fontana SSOP 06.99
	Connective tissue elements, including collagen	Masson Trichrome SSOP 06.99
	Copper associated protein and Hepatitis B surface antigen	Orcein SSOP 06.99
	Glycogen, mucopolysaccharide components, fungi and basement membranes	Periodic Acid Schiff (PAS) SSOP 06.99
	Polysaccharides, fungi and basement membranes	Periodic Acid Schiff Diastase
	Basement membranes	Periodic Acid Methanamine Silver (PAMS) SSOP 06.99
	Ferric Iron	Perls Prussian Blue SSOP 06.99
	Reticulin	Reticulin SSOP 06.99
	Copper	Rhodanine SSOP 06.99
	Mast cells	Toluidine Blue SSOP 06.99
	Collagen connective tissue fibres	Haematoxylin van-Gieson (HVG) SSOP 06.99
	Calcium	Von Kossa SSOP 06.99
	Mycobacterium e.g. M. leprae	Wade Fite SSOP 06.99
	Acid and alcohol-fast bacilli	Ziehl-Neelsen (ZN) SSOP 06.99



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HUMAN TISSUE AND BODY FLUIDS (cont'd)	<u>Histopathology examination for the purpose of diagnosis</u> (cont'd)	Manual staining methods using in house documented procedures and the following stains cont'd:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on adhesive glass slides	Immunohistochemistry (IHC) for the demonstration of the following antigens:  C1q complement (Renal Native Panel) C3 complement (Renal Native Panel) IgA (Renal Native Panel) IgG (Renal Native Panel) IgM (Renal Native Panel) IgG IgM Kappa Lamba	Manufacturer's instructions for the listed equipment in conjunction with documented procedures from SSOP 07.99:  Leica Bond Max
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on adhesive glass slides	Chromogenic In-Situ Hybridisation (CISH) for the detection of:  EBV (Epstein Barr Virus)  Immunohistochemistry (IHC) for the demonstration of the following antigens:  ACTH Adenovirus (Pan-cytokeratin) AE1/AE3 ALK-1 Alzheimer precursor protein (APP) Alpha Feto-protein (AFP) ATRX Beta-catenin ( $\beta$ -catenin) BCL2 BCL6 BCOR (Ep-Cam) Ber-EP4 Bombesin Brachyury C4d Calcitonin	Manufacturer's instructions for the listed equipment in conjunction with documented procedures from SSOP 07.99 Leica Bond Max  Manufacturer's instructions for the listed equipment in conjunction with documented procedures from SSOP 07.99 Ventana Benchmark ULTRA



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<p>HUMAN TISSUE AND BODY FLUIDS (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on adhesive glass slides</p>	<p><u>Histopathology examination for the purpose of diagnosis (cont'd)</u></p> <p>Calretinin</p> <p>CD1a</p> <p>CD2</p> <p>CD3</p> <p>CD4</p> <p>CD5</p> <p>CD8</p> <p>CD10</p> <p>CD14</p> <p>CD15</p> <p>CD19</p> <p>CD20</p> <p>CD21</p> <p>CD25</p> <p>CD30</p> <p>CD31</p> <p>CD34</p> <p>CD45</p> <p>CD56</p> <p>CD61</p> <p>CD68 (KP1)</p> <p>CD68 (PG-M1)</p> <p>CD79a</p> <p>CD99</p> <p>CD117 (c-kit)</p> <p>CD138</p> <p>CD163</p> <p>CEA (Carcino Embryonic Antigen)</p> <p>Chromogranin A</p> <p>CMV (Cytomegalovirus)</p> <p>Cyclin D1</p> <p>Cytokeratin 7 (CK7)</p> <p>Cytokeratin 14 (CK14)</p> <p>Cytokeratin 19 (CK19)</p> <p>Cytokeratin 20 (CK20)</p> <p>(Podoplanin) D2-40</p> <p>Desmin</p> <p>Dynorphin</p> <p>EMA</p> <p>ERG</p> <p>EZHIP (CXorf67)</p> <p>Factor 8</p>	<p>Manufacturer's instructions for the listed equipment in conjunction with documented procedures from SSOP 07.99</p> <p>Ventana Benchmark ULTRA (cont'd)</p>



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<p><b>HUMAN TISSUE AND BODY FLUIDS (cont'd)</b></p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on adhesive glass slides</p>	<p><u>Histopathology examination for the purpose of diagnosis (cont'd)</u></p> <p>Factor 13a Fascin FOXP3 FSH GAB1 GFAP Glucagon Glut-1 Glycophorin C Glypican-3 H. Pylori H3G34R H3K27M H3K27me3 HCG Human Growth Hormone HLA-DR HMB45 (Melanosome) HSV 1 HSV 2 IDH1 Inhibin INI-1 (BAF47, SMARCB1) Insulin IgG4 Ki-67 L1CAM Langerin LIN28a Luteinizing hormone Lysozyme MAP2 Mast Cell Tryptase (MCT) (MMR) MLH1 (MMR) MSH2 (MMR) MSH6 (MMR) PMS2 (Pan-cytokeratin) MNF116 MUM-1 Myeloperoxidase (MPO, MPX) Myogenin NeuN</p>	<p>Manufacturer's instructions for the listed equipment in conjunction with documented procedures from SSOP 07.99 Ventana Benchmark ULTRA (cont'd)</p>



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<p><b>HUMAN TISSUE AND BODY FLUIDS (cont'd)</b></p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on adhesive glass slides</p>	<p><u>Histopathology examination for the purpose of diagnosis (cont'd)</u></p> <p>Neurofilament 66 kD Neurofilament 200 kD NSE OCT 3/4 OLIG2 P4EBP P53 P65 (RELA) PAX5 Pancreatic cocktail Pancreatic polypeptide Parvovirus PIT-1 PHOX2B PLAP Proinsulin Prolactin PS6 Reticulin RT97 S100 SALL4 Sars-cov-2 SF-1 SMA (Smooth Muscle Actin) SMARCA4 (BRG1) Somatostatin Surfactant B SV40 Synaptophysin TdT TFE3 TLE-1 T-PIT Toxoplasma Transthyretin (TTR, Prealbumin) TSH TTF-1 Vimentin WT1 YAP1</p>	<p>Manufacturer's instructions for the listed equipment in conjunction with documented procedures from SSOP 07.99 Ventana Benchmark ULTRA (cont'd)</p>





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<p><b>HUMAN TISSUE AND BODY FLUIDS (cont'd)</b></p> <p>Frozen muscle tissue sections on adhesive glass slides</p>	<p><u>Histopathology examination for the purpose of diagnosis (cont'd)</u></p> <p>Immunohistochemistry for the detection of the following antigens:</p> <p>Dynorphin Dystrophin 1 Dystrophin 2 Dystrophin 3 Dysferlin Alpha dystroglycan Beta Dystroglycan Myosin Developmental Myosin Fast Myosin Neonatal Myosin Slow Sarcoglycan Alpha Sarcoglycan Beta Sarcoglycan Delta Sarcoglycan Gamma Alpha-2-Merosin Caveolin Collagen VI Emerin Merosin (laminin alpha 2_ P62 Spectrin CD3 CD4 CD8 CD20 CD31 CD68 MxA Dysferlin HLA (ABC) MAC C5b-9</p>	<p>Manufacturer's instructions for Leica Bond Max in conjunction with in house documented procedures SSOP 11.99</p>



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Frozen muscle tissue sections on adhesive glass slides	Enzyme Histochemistry for the identification of:  Cytochrome Oxidase NAHD Dehydrogenase Muscle and collagen  Succinate Dehydrogenase Muscle architecture (inc. mitochondria)	Manual methods following in house documented procedures:  COX SSOP 11.99 NADH-TR SSOP 11.99 Picrosirius SSOP 11.99  SDH SSOP 11.99 Gomori Trichrome SSOP 11.99
Formalin and glutaraldehyde fixed tissues	Electron Microscopy Demonstration of ultrastructural components of renal, muscle, cardiac, and other tissues  Production of micrographs for diagnostic and interpretive use.	Manufacturer's instructions for JEOL 1400 Electron Microscope and Leica Ultracut Microtome with in house documented methods:  SSOP 09.99: Specimen reception, fixation and dissection SSOP 09.99: Resin Processing SSOP 09.99: Semi thin sectioning using the Ultra microtome SSOP 09.99: Ultrathin sectioning SSOP 09.99: EM staining schedule
Hair	Demonstration of ultrastructural components	SSOP 09.99 (B): Reception and booking in and Omni Reference guide
Platelets	Demonstration of ultrastructural components (Hermansky Pudlak)	SSOP 09.99 Diagnosis of Hermansky Pudlak (HP)
Buffy Coat	Demonstration of ultrastructural components - Vacuolated lymphocytes	SSOP 09.99



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HUMAN TISSUE AND BODY FLUIDS (cont'd)	<u>Cytopathology examination for the purpose of diagnosis</u>	Documented in house methods incorporating manufacturers' instructions where relevant:
	To identify or exclude morphological and cytological abnormalities	Macroscopic and Microscopic examination:
		SSOP 01.106: Use of Cytospin, Handling of fresh/infectious specimens and use of Hepair Class 1 cabinet, Use of centrifuge
CSF		Cerebro Spinal Fluid (CSF)
Body Fluids		SSOP 01.106: Body Fluids
Cyst Aspirates		SSOP 01.106: Craniopharyngioma cyst aspirate
Sputum		SSOP 01.106: Sputum Oil Red O Rapid H&E SSOP 01.106
Trans bronchial Biopsy and lavage		SSOP 01.106: Transbronchial Biopsy and lavage
All slides prepared as above	Morphological assessment and interpretation/diagnostic opinion	SRP002
END		