


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>Accredited to ISO 15189:2022</p>	Liverpool University Hospitals NHS Foundation Trust	
	Issue No: 013 Issue date: 23 January 2026	
	Mount Vernon Street Liverpool L7 8YE United Kingdom	Contact: Ines Santos Tel: +44 (0)151 706 4374 E-Mail: Ines.Santos@liverpoolft.nhs.uk Website: www.liverpoolcl.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
Address Clinical Sciences Services Building Royal Liverpool Hospital Liverpool University Hospitals Foundation Trust Mount Vernon Street Liverpool L7 8YE United Kingdom	Local contact James Wingfield 0151 706 2000 james.wingfield@liverpoolft.nhs.uk	Diagnostic cytology(non-Gynae) Special Stains Immunocytochemistry Routine Histopathology Frozen Section Histology Immunofluorescence Molecular Pathology Mortuary Services (body receipt, storage and release)	A



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Address FNA Clinic Aintree Hospital Longmoor Lane Liverpool L9 7AL</p> <p>Local Contact Claire Chadwick 0151 706 5623 claire.chadwick@liverpool.nhs.uk</p>	FNA slide preparation, adequacy assessment and reporting	B
<p>Address Mortuary Royal Liverpool University Hospital Mount Vernon Street Liverpool L7 8YE</p> <p>Local Contact Neil White 0151 706 3801 neil.white@liverpoolft.nhs.uk</p>	Mortuary Services (body receipt, storage and release)	A
<p>Address Mortuary Aintree University Hospital Lower Lane Liverpool L9 7AL</p> <p>Local Contact Neil White – as above</p>	Body storage	C
<p>Address Mortuary Broadgreen Hospital Thomas Drive Liverpool L14 3LB</p> <p>Local Contact Neil White – as above</p>	Body storage	D
<p>Address Theatres Royal Liverpool University Hospital Prescot Street Liverpool L7 8XP</p> <p>Local Contact Georgio Bristol 0151 706 4677 georgio.bistol.liverpoolft.nhs.uk</p>	Renal sample adequacy check.	E



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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 TISSUES AND FLUIDS	<u>Diagnostic Cytology</u>		
CSF, urine, general body fluids, bronchial brushings, EBUS, ERCP	Preparation and examination of cellular material to identify or exclude morphological and cytological abnormalities.	In-house documented procedures using: <u>Preparation of cell samples</u> Sakura Cyto-Tek Centrifuge Thermoscientific centrifuge CP-NCER-SOP-23 Genesis T200 slide processor and Leica ST5020 Multistainer and CV5030 Coverslipper CP-NCER-SOP-4 CP-NCE-SOP-5 Preparation of fluids requiring cytospin CP-NCER-SOP-1 Fine needle aspiration cytology <u>Fluid preparation using Holigic thin prep CP-NCER-SOP-11</u>	A
CSF, urine, general body fluids, bronchial brushings, EBUS, ERCP, FNA	Preparation and examination of cellular material to identify or exclude morphological and cytological abnormalities.	<u>Production of cell block</u> CP-NCER-SOP-10 Preparation of an Agar Cell Block	A
FNA	Morphological assessment in order to ascertain adequacy for diagnosis and interpretation/diagnosis	<u>Staining</u> In-house procedures using Leica stainer ST5020 and May Grunwald Giemsa stain CP-NCER-SOP-4 CP-NCER-SOP-2 May Grunwald Giemsa method	A
CSF, urine, general body fluids, bronchial brushings, EBUS, ERCP, FNA		<u>Material/slide preparation and staining</u> May Grunwald stain CP-NCER-SOP-2 and CP-NCER-SOP-1 Fine needle aspiration cytology	B
		Interpretive Microscopy Non cervical cytology reporting Guidelines CP-NER-SOP-15	A



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<p>HUMAN BODY TISSUE SAMPLES</p> <p>Fixed, fresh and frozen tissue; excisional and incisional biopsies and surgical resection specimens</p> <p>Formalin Fixed Paraffin wax blocks of processed tissue.</p> <p>Parrafin embedded blocks</p> <p>Parrafin embedded blocks</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Specimen dissection: Envair Downdraft tables</p> <p>Handling of ocular referral specimens form external HM Coroner and Police forces CP-OPAT-SOP-10</p> <p>Routine Bone decalcification CP-SPE-SOP-20</p> <p>Tissue processing:</p> <p>Leica Peloris II Automated tissue processor CP-HIS-SOP-53</p> <p>Leica Peloris III automated tissue processor CP-HIS-SOP-76</p> <p>Embedding: Thermo Histostar CP-HIS-SOP-8</p> <p>Microtomy: Leica RM2255 automated microtomes CP-HIS-SOP-17</p> <p>Microtomy: AXLAB AS-410M Automatic Microtome CP-HIS-POL-2 CP-HIS-SOP-119</p> <p>AXLAB AT-192 Automated Microtome Trimmer CP-HIS-SOP-121</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>Tissue for frozen sections</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides and frozen sections</p> <p>Breast tissue slices FFPE (Formalin fixed paraffin embedded) tissue</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Morphological staining For the detection of:</p> <p>Basophilic and eosinophilic structures</p> <p>Special stains for the detection of:</p> <p>Acid and neutral mucopolysaccharides, glycogen and fungi</p> <p>Acid and Neutral Mucopolysaccharides</p> <p>Microorganisms and haemopoietic cells</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Cryotomy Intra-operative Frozen section Leica CM1850 UV Leica CM 1860 UV CP-HIS-SOP-27</p> <p>Interpretive/diagnostic microscopy CP-PATH-POL-2</p> <p>Hologic Faxitron (Vision) Specimen Radiology System CP-HIS-SOP-113</p> <p>Routine morphological staining using Tissuetek Prisma Stained and Tissue Tek Glas coverslipper CP-HIS-SOP-24</p> <p>Haematoxylin and Eosin (H & E) manual stain CP-HIS-SOP-9</p> <p>Diastase Alcian Blue Periodic acid Schiffs (DABPAS) (ABPAS) CP-HIS-SOP-43</p> <p>Alcian Blue CP-HIS-SOP-61</p> <p>Geimsa CP-HIS-SOP-44</p>	<p>A</p>



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HUMAN BODY TISSUE SAMPLES (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 manufacturer's instructions for the following methods (where relevant):	A
FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)	Special stains for the detection of: (cont'd)		
	Connective tissue	Gomori's trichrome (one stage) CP-HIS-SOP-45	
	Fibrin	Martius Scarlet Blue (MSB) CP-HIS-SOP-46	
	Reticulin	Gordon and Sweets CP-HIS-SOP-47	
	Spirochaetes	Steiner CP-HIS-SOP-48	
	Mast cells	Toluidine Blue CP-HIS-SOP-50	
	Amyloid	Congo red CP-HIS-SOP-2	
	Leprosy	Fite-Faraco CP-HIS-SOP-3	
	Bacteria	Gram CP-HIS-SOP-4	
	Fungi	Grocott Silver CP-HIS-SOP-28	
	Connective tissue	Haematoxylin Van Gieson (HVG) CP-HIS-SOP-22	
	Basement membranes	Jones methanamine silver CP-HIS-SOP-23	
	Argentaffin cells, melanin	Masson Hamperl CP-HIS-SOP-30	



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides (cont'd)</p> <p>Formalin fixed lung tissue on glass slide</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Special stains for the detection of: (cont'd)</p> <p>Connective tissue</p> <p>Melanin</p> <p>Elastin</p> <p>Haemosiderin and ferric iron</p> <p>Hep B Sag and copper associated protein</p> <p>Calcium</p> <p>Tubercle bacilli</p> <p>Asbestos fibres</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Masson Trichrome CP-HIS-SOP-107</p> <p>Melanin bleach CP-HIS-SOP-31</p> <p>Millers Elastic Van Gieson (EVG) CP-HIS-SOP-21</p> <p>Perls CP-HIS-SOP-5</p> <p>Shikata Orcein CP-HIS-SOP-32</p> <p>Van Kossa CP-HIS-SOP-51</p> <p>Ziehl Neelson CP-HIS-COP-6</p> <p>Post mortem Asbestos Fibre Count CP-SPE-SOP-31</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following:</p> <p>High molecular weight cytokeratins</p> <p>A1AT deficiency</p> <p>Pan-cytokeratin</p> <p>Androgen receptor in prostate and breast tumours</p> <p>B-Catenin protein in fibromatous lesions</p> <p>BRCA associated protein</p> <p>Diffuse lymphoproliferative disease and neoplastic cells of follicular lymphomas</p> <p>Germinal centre B-lymphs</p> <p>Epithelial cell types</p> <p>Ovarian tumour marker</p> <p>Parafollicular cells in thyroid and medullary thyroid carcinoma</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>34BE12</p> <p>A1AT (Alpha 1 Anti-trypsin)</p> <p>AE1AE3</p> <p>AR (Androgen Receptor)</p> <p>B-CAT (Beta catenin)</p> <p>BAP-1 (BRCA associated protein)</p> <p>BCL-2</p> <p>BCL-6</p> <p>BEREP4</p> <p>CA125</p> <p>Calcitonin</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Marker of smooth muscle</p> <p>Marker of mesothelioma</p> <p>Epithelial marker</p> <p>Langerhan's cells and interdigitating reticulum cells</p> <p>Peripheral T-Lymphocytes</p> <p>T-Lymphocytes</p> <p>Germinal centre T lymphocytes and B lymphocyte subset</p> <p>Suppressor/cytotoxic T-cells</p> <p>Lymphoid and endometrial malignancies</p> <p>Reed-Sternberg cells, myeloid cells and epithelial cells</p> <p>Normal and neoplastic B-cells</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>Caldesmon</p> <p>Calretinin</p> <p>CAM 5.2</p> <p>CD1a</p> <p>CD2</p> <p>CD3</p> <p>CD5</p> <p>CD8</p> <p>CD10</p> <p>CD15</p> <p>CD20</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Hodgkins and Reed Sternberg cells, ALCL and embryonal carcinoma</p> <p>Endothelial cells</p> <p>Endothelial cells and other cell types in various solid tumours</p> <p>Plasma cells</p> <p>T-cells and myeloid lineage cells</p> <p>Lymphocytes and reactive urothelium</p> <p>T and B lymphocytes</p> <p>NK cells, nerves and neuroendocrine differentiation</p> <p>NK cells</p> <p>Megakaryocytes and platelets</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>CD30</p> <p>CD31</p> <p>CD34</p> <p>CD38</p> <p>CD43</p> <p>CD44</p> <p>CD45 (Leucocyte common antigen)</p> <p>CD56</p> <p>CD57</p> <p>CD61</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Macrophages, myeloid cells and monocytes</p> <p>Macrophages and monocytes</p> <p>B lymphocytes</p> <p>Ewing's sarcoma</p> <p>Stem cells, melanocytes, mast cells and GIST tumours</p> <p>Plasma cells</p> <p>Lining of blood and lymphatic vessels and mesothelial cells</p> <p>Intestinal epithelia and GI tract tumours</p> <p>Neuroendocrine cells</p> <p>Stratified squamous epithelia, basal cells and mesotheliomas</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>CD68 (KP1)</p> <p>CD68 (PG)</p> <p>CD79a</p> <p>CD99</p> <p>CD117 (c-kit)</p> <p>CD138</p> <p>CD141(thrombomodulin)</p> <p>CDX2</p> <p>CHROMA (Chromogranin A)</p> <p>Ck5/6 (Cytokeratins 5 & 6)</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Normal and neoplastic epithelia</p> <p>Normal and neoplastic epithelia</p> <p>Normal and neoplastic epithelia</p> <p>Cytomegalovirus infection</p> <p>Interstitial cells of Cajal in GIT and GIST tumours</p> <p>Lymphatic endothelium</p> <p>Epithelial cell adhesion molecule</p> <p>Normal and neoplastic epithelia</p> <p>Cellular oestrogen receptor expression</p> <p>Apocrine epithelia and breast carcinoma</p> <p>Cytotoxic T lymphocytes and NK cells</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>CK7 (Cytokeratin 7)</p> <p>CK19 (Cytokeratin 19)</p> <p>CK20 (Cytokeratin 20)</p> <p>CMV</p> <p>DOG-1</p> <p>D2-40 (Podoplanin)</p> <p>E-CAD (e-cadherin)</p> <p>EMA (Epithelial membrane antigen)</p> <p>ER (Oestrogen receptor)</p> <p>GCDFP (Gross cystic disease fluid protein-15)</p> <p>GRANB (Granzyme B)</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Distinguish mesothelioma from adenocarcinoma and thyroid carcinoma from benign lesions</p> <p>HCG in trophoblastic elements and germ cell tumours</p> <p>Normal and malignant hepatocytes</p> <p>Melanoma and melanocyte differentiation</p> <p>Kaposi's sarcoma and Castleman's disease</p> <p>Plasma cells and related lymphoid cells containing IgA</p> <p>Plasma cells and related lymphoid cells containing IgG</p> <p>Plasma cells and related lymphoid cells containing IgM</p> <p>Sertoli cells, granulosa cell tumours and sex cord stromal tumours</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>HBME-1</p> <p>HCG (Human chorionic gonadotrophin)</p> <p>HEPATO</p> <p>HMB45</p> <p>HHV8 (human herpes virus 8)</p> <p>IgA specific for alpha chains</p> <p>IgG specific for gamma chains</p> <p>IgM specific for Mu-chains</p> <p>INHIB</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Insulin producing cells in normal and neoplastic tissue</p> <p>Plasma cells and related lymphoid cells containing Kappa light chains</p> <p>Proliferation marker</p> <p>Plasma cells and related lymphoid cells containing Lambda light chains</p> <p>Neoplasms of squamous cell origin, hair follicles and myoepithelial cells</p> <p>Melanoma marker</p> <p>Melanocytes and retinal pigment epithelium, melanomas and naevi</p> <p>Epithelial marker</p> <p>Mismatch repair protein</p> <p>Mismatch repair protein</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>INS</p> <p>KAP</p> <p>Ki67</p> <p>LAM</p> <p>LLOO2 (cytokeratin 14)</p> <p>MEL-A</p> <p>MITF</p> <p>MNF-116</p> <p>MSH-2</p> <p>MSH6</p>	<p>A</p>



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HUMAN BODY TISSUE SAMPLES (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 manufacturer's instructions for the following methods (where relevant):	A
FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)	Immunohistochemistry to detect the following: (cont'd)	Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33 Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36 Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18 Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6	
	Mucin glycoprotein-1	MUC-1	
	Mucin glycoprotein-5AC	MUC-5	
	Mucin glycoprotein-6	MUC-6	
	Multiple myeloma oncogene-1	MUM-1P	
	Myeloperoxidase in neutrophils and granulocytes	MYELO	
	Rhabdomyosarcomas	MYO-D1	
	Rhabdomyosarcoma and Wilm's tumours	MYOGEN	
FFPE Slides (formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalin fixed cytopin slides	Pluripotent germ cell tumours, i.e. seminoma	OCT 3/4	
	Epithelial basal cell marker	P63	
	HGPIN and prostatic adenocarcinoma	P504S	



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Issue No: 013 Issue date: 23 January 2026

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
<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Prostatic glandular epithelium and prostate carcinoma</p> <p>Thyroid, renal, Mullerian and thymic tumours</p> <p>Activated T-cells and marker for angioimmunoblastic lymphoma</p> <p>Neuroendocrine cells and neurons</p> <p>Cellular Progesterone receptor expression</p> <p>Germ cell neoplasms and in breast, ovarian and lung carcinomas</p> <p>Normal and neoplastic melanocytes, adipocytes, neural cells and tumours</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>PAPH</p> <p>PAX-8</p> <p>PD-1</p> <p>PGP 9.5</p> <p>PGR</p> <p>PLAP</p> <p>S100</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Smooth muscle, myoepithelial and other contractile cells</p> <p>Detection of primary and metastatic renal cell carcinomas</p> <p>Melanoma marker</p> <p>Neuroendocrine cells and neurones</p> <p>Marker for normal and malignant thyroid</p> <p>Dermal melanocytes, melanocytic lesions and malignant melanomas</p> <p>Cells of mesenchymal origin and mesenchymal tumours</p> <p>Wilm's tumour, malignant mesothelioma, ovarian cystadenocarcinoma, nephroblastoma and desmoplastic small round cell tumours</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>SMA</p> <p>RCC</p> <p>SOX-10</p> <p>SYN</p> <p>THGLOB</p> <p>TYROS</p> <p>VIM</p> <p>WT-1</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>Formalin-fixed paraffin embedded (FFPE) tissue blocks</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>PD-L1 Protein Expression in Gastro-Oesophageal Tumours</p> <p>Herpes Simplex Virus 1 antigen</p> <p>Metastatic breast carcinomas, endometroid adenocarcinomas, salivary gland and skin adnexal tumours</p> <p>Lung adenocarcinoma, Ovarian and renal clear cell carcinomas</p> <p>Membranous Nephropathy</p> <p>Mismatch Repair Protein detection in colorectal, endometrial, gastric and other cancers</p> <p>Mismatch Repair Protein detection in colorectal, endometrial, gastric and other cancers</p> <p>B-cell specific activator protein in normal and neoplastic cells of B-cell lineage</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>PD-L1 (programmed death ligand-1)</p> <p>Herpes Simplex Virus 1 (HSV1)</p> <p>Mammaglobin</p> <p>Napsin A</p> <p>PLA2R (Phospholipase A2 Receptor)</p> <p>MLH1 (MutL Protein homolog 1)</p> <p>PMS2 (postmeiotic segregation increased 2)</p> <p>PAX5 (B-cell specific activator protein)</p>	<p>A</p>



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Issue No: 013 Issue date: 23 January 2026

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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>Formalin-fixed paraffin embedded (FFPE) tissue blocks</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Pancreatic tumours</p> <p>Gastrin producing cells</p> <p>Cells of T-cell lineage: peripheral T-cells, NK cells and thymocytes</p> <p>B cells and monocytes</p> <p>Striated and smooth muscle cells and mesothelial cells</p> <p>Pulmonary and H&N SCC tumours</p> <p>Normal colon, stomach salivary glands and lungs. Expression seen in pancreatic, colonic, pulmonary and gastric carcinomas and epithelioid fibrosarcoma</p> <p>Prostate secretory and ductal epithelia in normal and neoplastic prostate tissue</p> <p>Tumours of urothelial origin</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Dako Omnis Basic User SOP: CP-IMM-SOP-33</p> <p>Immunocytochemistry Dako Omnis Advanced User: CP-IMM-SOP-36</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>Trypsin</p> <p>Gastrin</p> <p>CD7</p> <p>CD23 (45kDa type II membrane glycoprotein)</p> <p>Desmin</p> <p>P40</p> <p>MUC4 (Mucin glycoprotein 4)</p> <p>PSA (Prostate Specific Antigen)</p> <p>Uroplakin</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>Sebaceous carcinoma</p> <p>Primary liver tumours and yolk sac tumours</p> <p>Myoglobin in skeletal and cardiac muscle</p> <p>Anaplastic lymphoma kinase (CD246) in ALCL</p> <p>Hairy cell leukaemia</p> <p>Dendritic cells</p> <p>Common B-cell marker expressed on B-cells and follicular dendritic cells</p> <p>Follicular dendritic cell</p> <p>IL-3 receptor in monocytes, neutrophils and basophils</p> <p>Macrophages</p> <p>Endogenous C-Myc</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Use of Dako AS Link 48 SOP: CP-IMM-SOP-17 and Immunocytochemistry Use and Operation of PT Link SOP: CP-IMM-SOP-24</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>Adipophilin</p> <p>Alpha fetoprotein (AFP) CP-IMM-COP-17</p> <p>MYOG</p> <p>ALK-1</p> <p>Annexin A1</p> <p>CD11c</p> <p>CD19</p> <p>CD21</p> <p>CD123</p> <p>CD163</p> <p>C-MYC</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopins slides (cont'd)</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>B-cell centroblastic cell line</p> <p>Epstein Barr Virus infection</p> <p>Erythroid cells</p> <p>Splenic marginal zone lymphoma and B-cell lymphocytic lymphoma</p> <p>Mast cells</p> <p>Neuronal marker</p> <p>Marker of molar pregnancy</p> <p>Renal cell oncocyoma tumour</p> <p>Detection of SV40 virus in renal transplant samples</p> <p>Thymic cortical lymphocytes and lymphoblastic lymphomas and leukaemias</p> <p>Cytotoxic T-cells</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Immunocytochemistry Use of Dako AS Link 48 SOP: CP-IMM-SOP-17 and Immunocytochemistry Use and Operation of PT Link SOP: CP-IMM-SOP-24</p> <p>Immunocytochemistry Use of Dako Coverslipper: CP-IMM-SOP-18</p> <p>Interpretive Microscopy procedures: Pathologist Reporting and Cut-up: CP-PATH-POL-2 and PD-L1 Reporting Procedures: CP-PATH-POL-6</p> <p>DBA44</p> <p>EBV</p> <p>GLYCA (Glycophorin A)</p> <p>IgD delta chain</p> <p>MCT</p> <p>NFP (Neurofilamnet protein)</p> <p>P57</p> <p>RON-A</p> <p>SV40</p> <p>TDT</p> <p>TIA-1</p> <p>OCT 2</p>	<p>A</p>
<p>FFPE slides (formalin fixed paraffin embedded) tissue on glass slides</p>	<p>Cytotoxic T-cells</p>	<p>TIA-1</p> <p>OCT 2</p>	



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides and cell blocks</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Immunohistochemistry to detect the following: (cont'd)</p> <p>ALK protein in NSCLC</p> <p>HER2 amplification in breast tumours</p> <p>Expression of PD-L1 protein in NSCLC</p> <p>Dermatofibroma</p> <p>Mantle cell lymphoma</p> <p>Marker of rejection in renal transplants</p> <p>Glial fibrillary acidic protein neural cells</p> <p>Smooth muscle and myoepithelial cells</p> <p>Mantle cell lymphoma marker</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Roche Ventana Bench Mark Ultra x2 CP-IMM-SOP-19 CP-PATH-POL-6 CP-PATH-POL-2</p> <p>ALKD5F3</p> <p>HER-2</p> <p>PD-L1</p> <p>FAC 13A</p> <p>GATA-3</p> <p>NKX3.1</p> <p>ROS1 (clone SP384)</p> <p>BCL-1 (Cyclin -D1)</p> <p>CD4</p> <p>GFAP (Glian fibrillary acidic protein)</p> <p>SMMS-1</p> <p>SOX-11</p> <p>PD-L1 (clone SP142)</p> <p>STAT6</p>	<p>A</p>
<p>FFPE Slides (formalin fixed paraffin embedded) tissue on glass slides</p>			



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HUMAN BODY TISSUE SAMPLES (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 manufacturer's instructions for the following methods (where relevant):	A
Formalin-fixed paraffin embedded (FFPE) tissue blocks	Immunohistochemistry to detect the following: (cont'd)	Roche Ventana Bench Mark Ultra x2 CP-IMM-SOP-19 CP-PATH-POL-6 CP-PATH-POL-2	
	Expression of PD-L1 protein in Triple Negative Breast Cancer (TNBC) tumours	PD-L1 (programmed death ligand-1)	
	Hepatocellular carcinoma (HCC)	Arginase	
	V600e in melanoma and colorectal cancers	BRAF600e	
	Clear cell carcinoma- renal	CAIX (Carbonic Anhydrase IX)	
	Glucagon protein	Glucagon	
	Hepatocellular carcinoma CAIX (Carbonic Anhydrase IX) and (HCC), Yolk Sac Tumours	Glypican-3	
	Hepatitis B Surface Antigen (HBsAg)	INI-1 (Integrase Interactor-1/BAF 47)	
	Gastro-Oesophageal Tissues	HER2 (4B5)	
	Tumour suppressor protein p53	P53	
	Melanoma	PRAME (Preferentially expressed antigen in melanoma)	
	Helicobacter pylori/H-pylori organisms	HB (helicobacter bacilli)	
	IgG4/IgG4 related disease (IgG4-RD)	IgG4	
	Helper inducer T-lymphocytes, thymocytes and T-cell lymphomas	CD4	



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HUMAN BODY TISSUE SAMPLES (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 manufacturer's instructions for the following methods (where relevant):	A
Formalin-fixed paraffin embedded (FFPE) tissue blocks	Immunohistochemistry to detect the following: (cont'd)	Roche Ventana Bench Mark Ultra x2 CP-IMM-SOP-19 CP-PATH-POL-6 CP-PATH-POL-2	
	Thyroid and lung pneumocytes	TTF-1 (Thyroid Transcription Factor-1)	
	Mucinous adenocarcinoma	MUC-2 (Mucin glycoprotein-2)	
	p16INK4a oncoprotein	P16	
	Islet cell tumours	Somatostatin	
Formalin-fixed paraffin embedded (FFPE) tissue blocks	Immunohistochemistry to detect the following: (cont'd)	IHC antibody detection using Dako Omnis immunostainers x4 CP-IMM-SOP-33 CP-IMM-SOP-36 SOP-IMM-SOP-18 CP-PATH-POL-6	
	PD-L1 Protein Expression in Gastro-Oesophageal Tumours	PD-L1 (programmed death ligand-1)	
	Herpes Simplex Virus 1 antigen	Herpes Simplex Virus 1 (HSV1)	
	Metastatic breast carcinomas, endometroid adenocarcinomas, salivary gland and skin adnexal tumours	Mammaglobin	
	Lung adenocarcinoma, Ovarian and renal clear cell carcinomas	Napsin A	
	Membranous Nephropathy	PLA2R (Phospholipase A2 Receptor)	
	Mismatch Repair Protein detection in colorectal, endometrial, gastric and other cancers	MLH1 (MutL Protein homolog 1)	



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<p>HUMAN BODY TISSUE SAMPLES (cont'd)</p> <p>Fresh frozen skin biopsy tissue</p> <p>Stained slides prepared as above</p> <p>Breast tissue</p> <p>FFPE tissue, cell blocks, cytopsin slides</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Identification of: Immunoglobulins and complement</p> <p><u>Molecular Pathology</u></p> <p>Morphological assessment and interpretation/diagnosis</p> <p>Fluorescent in-situ hybridisation (FISH)</p> <p>Determination of HER 2 gene amplification</p>	<p>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant): Direct Immunofluorescence technique:</p> <p>Documented in-house procedures in conjunction with manufacturer's instructions using DAKO FITC-conjugated antibodies</p> <p>Manual techniques CP-IMM-SOP-16</p> <p>IgA IgG C3</p> <p>Automated techniques using Dako Omnis CP-MOL-SOP-17</p> <p>Fluorescence microscope Olympus BX 61 CP-MOL-SOP-15</p> <p>Interpretive/diagnostic microscopy CP-IMM-SOP-11</p> <p>Evaluation and reporting of HER 2 tests CP-IMM-SOP-11</p> <p>ROS 1IQFISH Break-apart probe</p>	<p>A</p>



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HUMAN BODY TISSUE SAMPLES (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 manufacturer's instructions for the following methods (where relevant):	A
	<u>Molecular Pathology</u> (cont'd)		
FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides	Morphological assessment and interpretation/diagnosis (cont'd)		
	Chromogenic in situ hybridisation (CISH)	Automated techniques using Ventana Benchmark Ultra CP-IMM-SOP-19 and CISH probes	
	Epstein Barr Virus RNA	INFORM EBER probe	
Tissue block	BRAF mutation screening	Automated techniques using Biocartis Idylla CP-MOL-SOP-25	
	EGFR mutation screening		
FFPE samples, vitrous fluid, whole blood	DNA extraction	Automated technique using QIAcube CP-MOL-SOP-23	
Genomic DNA from the above sample types	DNA quantification	Automated technique using Qubit 4.0 Fluorimeter and Qubit dsDNA BR assay kit CP-MOL-SOP-24	
Genomic DNA from the above sample types	Detection of B and T cell gene mutation	Clonality Assay using ABI 3500 CP-MOL-SOP-20 CP-MOL-SOP-19	
Genomic DNA extracted and quantified from FFPE using above techniques	Non-Small Cell Lung Cancer (NSCLC)	Next Generation Sequencing using Genexus Integrated Sequencer and Oncomine Precision Assay GX	
		Data analysis using Oncomine Precision GX Solid Tumour DNA and Fusions workflow CP-MOL-SOP-32	
END			