


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>7924</p> <p>Accredited to ISO 15189:2012</p>	Liverpool University Hospitals NHS Foundation Trust	
	Issue No: 005 Issue date: 24 June 2020	
	Prescot Street Liverpool L7 8XP 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 Liverpool Clinical Laboratories Department of Cellular Pathology Duncan Building Prescot Street Liverpool L7 8XP United Kingdom	Local contact Chris Holcombe 0151 706 2000 chris.holcombe@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

Site activities performed away from the locations listed above:

Location details	Activity	Location code	
Address FNA Clinic Aintree Hospital Longmoor Lane Liverpool L9 7AL	Local Contact Jackie Medlock 0151 706 4583 Jackie.medlock@liverpoolft.nhs.uk	FNA slide preparation, adequacy assessment and reporting	B
Address Mortuary Royal Liverpool University Hospital Prescot Street Liverpool L7 8XP	Local Contact Jane Perry 0151 706 3801 Jane.perry@liverpoolft.nhs.uk	Mortuary Services (body receipt, storage and release)	A
Address Mortuary Aintree University Hospital Lower Lane Liverpool L9 7AL	Local Contact Jane Perry – as above	Body storage	C



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<p>Address Mortuary Broadgreen Hospital Thomas Drive Liverpool L14 3LB</p>	<p>Local Contact Jane Perry – as above</p>	<p>Body Storage</p>	<p>D</p>
<p>Address Theatres Royal Liverpool University Hospital Prescot Street Liverpool L7 8XP</p>	<p>Local Contact Dawn Young 0151 706 4677 Dawn.young@liverpool.nhs.uk</p>	<p>Renal sample adequacy check.</p>	<p>E</p>



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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 Thinprep T2000 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 <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
FNA	Morphological assessment in order to ascertain adequacy for diagnosis and interpretation/diagnosis	<u>Material/slide preparation and staining</u> May Grunwald stain CP-NCER-SOP-2 and CP-NCER-SOP-1 Fine needle aspiration cytology	B
CSF, urine, general body fluids, bronchial brushings, EBUS, ERCP, FNA		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><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: AFOS and Leec 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: Leica EG1160 and Thermo Histostar CP-HIS-SOP-8</p> <p>Microtomy: Leica RM2255 automated microtomes Leica RM2135 manual microtome CP-HIS-SOP-17</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES</p> <p>Tissue for frozen sections</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides and frozen sections</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></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>Connective tissue</p> <p>Fibrin</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>Routine morphological staining using Tissue tek 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>Gomori's trichrome (one stage) CP-HIS-SOP-45</p> <p>Martius Scarlet Blue (MSB) CP-HIS-SOP-46</p>	<p>A</p>



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HUMAN BODY TISSUE SAMPLES FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides	<u>Histopathological examination activities for the purposes of clinical diagnosis</u> Special stains for the detection of: Reticulin Spirochaetes Mast cells Amyloid Leprosy Bacteria Fungi Connective tissue Basement membranes Argentaffin cells, melanin Connective tissue Melanin	In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant): Gordon and Sweets CP-HIS-SOP-47 Steiner CP-HIS-SOP-48 Toluidine Blue CP-HIS-SOP-50 Congo red CP-HIS-SOP-2 Fite-Faraco CP-HIS-SOP-3 Gram CP-HIS-SOP-4 Grocott Silver CP-HIS-SOP-28 Haematoxylin Van Gieson (HVG) CP-HIS-SOP-22 Jones methanamine silver CP-HIS-SOP-23 Masson Hamperl CP-HIS-SOP-30 Masson Trichrome CP-HIS-SOP-79 Melanin bleach CP-HIS-SOP-31	A



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HUMAN BODY TISSUE SAMPLES	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	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	Special stains for the detection of:		
	Elastin	Millers Elastic Van Gieson (EVG) CP-HIS-SOP-21	
	Haemosiderin and ferric iron	Perls CP-HIS-SOP-5	
	Hep B Sag and copper associated protein	Shikata Orcein CP-HIS-SOP-32	
	Calcium	Van Kossa CP-HIS-SOP-51	
	Tubercle bacilli	Ziehl Neelson CP-HIS-COP-6	
Formalin fixed lung tissue on glass slide	Asbestos fibres	Post mortem Asbestos Fibre Count CP-SPE-SOP-31	
FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopspins slides	Immunohistochemistry to detect the following:	Dako Autostainer Link 48 CP-IMM-SOP-17	
	High molecular weight cytokeratins	Dako PT Link CP-IMM-SOP-24	
		34BE12	
	A1AT deficiency	A1AT (Alpha 1 Anti-trypsin)	
	Sebaceous carcinoma	Adipophilin	
	Primary liver tumours and yolk sac tumours	Alpha fetoprotein (AFP) CP-IMM-COP-17	



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<p>HUMAN BODY TISSUE SAMPLES</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytospins slides</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Immunohistochemistry to detect the following:</p> <p>Pan-cytokeratin</p> <p>Anaplastic lymphoma kinase (CD246) in ALCL</p> <p>Hairy cell leukaemia</p> <p>Androgen receptor in prostate and breast tumours</p> <p>B-Catenin protein in fibromatous lesions</p> <p>BRCA associated protein</p> <p>Mantle cell lymphoma</p> <p>Diffuse lymphoproliferative disease and neoplastic cells of follicular lymphomas</p> <p>Germinal centre B-lymphs</p> <p>MALT lymphoma</p> <p>Epithelial cell types</p> <p>Marker of rejection in renal transplants</p> <p>Ovarian tumour 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>Dako Autostainer Link 48 CP-IMM-SOP-17</p> <p>Dako PT Link CP-IMM-SOP-24</p> <p>AE1AE3</p> <p>ALK-1</p> <p>Annexin A1</p> <p>AR (Androgen Receptor)</p> <p>B-CAT (Beta catenin)</p> <p>BAP-1 (BRCA associated protein)</p> <p>BCL-1 (Cyclin -D1)</p> <p>BCL-2</p> <p>BCL-6</p> <p>BCL-10</p> <p>BEREP4</p> <p>CD4</p> <p>CA125</p>	<p>A</p>



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HUMAN BODY TISSUE SAMPLES	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	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 cytopspins slides	Immunohistochemistry to detect the following:	Dako Autostainer Link 48 CP-IMM-SOP-17	
	Parafollicular cells in thyroid and medullary thyroid carcinoma	Dako PT Link CP-IMM-SOP-24	
	Marker of smooth muscle	Calcitonin	
	Marker of mesothelioma	Caldesmon	
	Epithelial marker	Calretinin	
	Langerhan's cells and interdigitating reticulum cells	CAM 5.2	
	Peripheral T-Lymphocytes	CD1a	
	T-Lymphocytes	CD2	
	T helper lymphocytes	CD3	
	Germinal centre T lymphocytes and B lymphocyte subset	CD4	
	Peripheral T-cells, NK cells and thymocytes	CD5	
	Suppressor/cytotoxic T-cells	CD7	
	Lymphoid and endometrial malignancies	CD8	
	Dendritic cells	CD10	
		CD11c	



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytospins slides	Immunohistochemistry to detect the following:	Dako Autostainer Link 48 CP-IMM-SOP-17	
	Reed-Sternberg cells, myeloid cells and epithelial cells	Dako PT Link CP-IMM-SOP-24	
	Common B-cell marker expressed on B-cells and follicular dendritic cells	CD15	
	Normal and neoplastic B-cells	CD19	
	Follicular dendritic cell	CD20	
	B-cells and monocytes	CD21	
	Hodgkins and Reed Sternberg cells, ALCL and embryonal carcinoma	CD23	
	Endothelial cells	CD30	
	Endothelial cells and other cell types in various solid tumours	CD31	
	Follicular dendritic cell	CD34	
	Plasma cells	CD35	
	T-cells and myeloid lineage cells	CD38	
	Lymphocytes and reactive urothelium	CD43	
	T and B lymphocytes	CD44	
		CD45 (Leucocyte common antigen)	



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopspins slides	Immunohistochemistry to detect the following:	Dako Autostainer Link 48 CP-IMM-SOP-17	
	NK cells, nerves and neuroendocrine differentiation	Dako PT Link CP-IMM-SOP-24	
	NK cells	CD56	
	Megakaryocytes and platelets	CD57	
	Macrophages, myeloid cells and monocytes	CD61	
	Macrophages and monocytes	CD68 (KP1)	
	B lymphocytes	CD68 (PG)	
	Ewing's sarcoma	CD79a	
	Stem cells, melanocytes , mast cells and GIST tumours	CD99	
	IL-3 receptor in monocytes, neutrophils and basophils	CD117 (c-kit)	
	Plasma cells	CD123	
	Lining of blood and lymphatic vessels and mesothelial cells	CD138	
	Macrophages	CD141(thrombomodulin)	
	Intestinal epithelia and GI tract tumours	CD163	
	Adenocarcinoma GIT	CDX2	
		CEA (Carcinoembryonic antigen)	



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<p>HUMAN BODY TISSUE SAMPLES</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopspins slides</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Immunohistochemistry to detect the following:</p> <p>Splenic marginal zone lymphoma and B-cell lymphocytic lymphoma</p> <p>Plasma cells and related lymphoid cells containing IgG</p> <p>Plasma cells and related lymphoid cells containing IgG4</p> <p>Plasma cells and related lymphoid cells containing IgM</p> <p>Sertoli cells, granulosa cell tumours and sex cord stromal tumours</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>In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):</p> <p>Dako Autostainer Link 48 CP-IMM-SOP-17</p> <p>Dako PT Link CP-IMM-SOP-24</p> <p>IgD delta chain</p> <p>IgG specific for gamma chains</p> <p>IgG4</p> <p>IgM specific for Mu-chains</p> <p>INHIB</p> <p>INS</p> <p>KAP</p> <p>Ki67</p> <p>LAM</p> <p>LLOO2 (cytokeratin 14)</p>	<p>A</p>



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopspins slides	Immunohistochemistry to detect the following:	Dako Autostainer Link 48 CP-IMM-SOP-17	
		Dako PT Link CP-IMM-SOP-24	
	Mast cells	MCT	
	Liposarcoma	MDM2	
	Melanoma marker	MEL-A	
	Melanocytes and retinal pigment epithelium, melanomas and naevi	MITF	
	Mismatch repair protein	MLH1	
	Epithelial marker	MNF-116	
	Mismatch repair protein	MSH-2	
	Mismatch repair protein	MSH6	
	Mucin glycoprotein-1	MUC-1	
	Mucin glycoprotein-2	MUC-2	
	Mucin glycoprotein-4	MUC-4	
	Mucin glycoprotein-5AC	MUC-5	
	Mucin glycoprotein-6	MUC-6	
	Multiple myeloma oncogene-1	MUM-1P	
	Myeloperoxidase in neutrophils and granulocytes	MYELO	



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FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopspins slides	Immunohistochemistry to detect the following:	Dako Autostainer Link 48 CP-IMM-SOP-17	
	Rhabdomyosarcomas	Dako PT Link CP-IMM-SOP-24	
	Myoglobin in skeletal and cardiac muscle	MYO-D1	
	Rhabdomyosarcoma and Wilm's tumours	MYOG	
	Neuronal marker	MYOGEN	
	Pluripotent germ cell tumours, i.e. seminoma	NFP (Neurofilamnet protein)	
	P16INK4a oncoprotein in HPV driven tumours,i.e. SCC	OCT 3/4	
	Pulmonary and H&N SCC	P16	
	Reacts with wild type and mutant P53 protein	P40	
	Marker of molar pregnancy	P53	
	Epithelial basal cell marker	P57	
	HGPIN and prostatic adenocarcinoma	P63	
	Prostatic glandular epithelium and prostate carcinoma	P504S	
		PAPH	



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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 TISSUE SAMPLES	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	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	Immunohistochemistry to detect the following:	Dako Autostainer Link 48 CP-IMM-SOP-17	
	Dako PT Link CP-IMM-SOP-24		
	Normal and neoplastic cells of B-cell lineage	PAX-5	
	Thyroid, renal, Mullerian and thymic tumours	PAX-8	
	Activated T-cells and marker for angioimmunoblastic lymphoma	PD-1 CP-IMM-SOP-17	
	Expression of PD-L1 protein in NSCLC	PD-L1 PD-L1 IHC 22C3 pharmDX kit CP-IMM-SOP-22	
	Neuroendocrine cells and neurons	PGP 9.5	
	Cellular Progesterone receptor expression	PGR	
	Germ cell neoplasms and in breast, ovarian and lung carcinomas	PLAP	
	Mismatch repair protein	PMS2	
	Prostate secretory and ductal epithelia in normal and neoplastic tissue	PSA	
	Detection of primary and metastatic renal cell carcinomas	RCC	
	Renal cell oncocyoma tumour	RON-A	



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HUMAN BODY TISSUE SAMPLES	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	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 cytospins slides	Immunohistochemistry to detect the following:	Dako Autostainer Link 48 CP-IMM-SOP-17	
	Normal and neoplastic melanocytes, adipocytes, neural cells and tumours	Dako PT Link CP-IMM-SOP-24	
	Smooth muscle, myoepithelial can other contractile cells	S100	
	Sarcomeric Actin in striated and cardiac muscle cells)	SMA	
	Smooth muscle and myoepithelial cells	SMA-ACT	
	Melanoma marker	SMMS-1	
	Mantle cell lymphoma marker	SOX-10	
	Detection of SV40 virus in renal transplant samples	SOX-11	
	Neuroendocrine cells and neurones	SV40	
	TCR-beta bearing T lymphocytes	SYN	
		TCR-B	



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<p>HUMAN BODY TISSUE SAMPLES</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides, cell blocks and formalins fixed cytopspins slides</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Immunohistochemistry to detect the following:</p> <p>Thymic cortical lymphocytes and lymphoblastic lymphomas and leukaemias</p> <p>Marker for normal and malignant thyroid</p> <p>Cytotoxic T-cells</p> <p>Detection of TRAP protein in hairy cell leukaemia</p> <p>Pancreatic tumours</p> <p>Marker of normal thyroid and lung tumours</p> <p>Dermal melanocytes, melanocytic lesions and malignant melanomas</p> <p>Tumours of urothelial origin</p> <p>Cells of mesenchymal origin and mesenchymal tuours</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>Dako Autostainer Link 48 CP-IMM-SOP-17</p> <p>Dako PT Link CP-IMM-SOP-24</p> <p>TDT</p> <p>THGLOB</p> <p>TIA-1</p> <p>TRAP</p> <p>TRYP</p> <p>TTF-1</p> <p>TYROS</p> <p>UROPLA</p> <p>VIM</p> <p>WT-1</p>	<p>A</p>



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<p>HUMAN BODY TISSUE SAMPLES</p> <p>FFPE slides (Formalin fixed paraffin embedded) tissue on glass slides and cell blocks</p> <p>Fresh frozen skin biopsy tissue</p>	<p><u>Histopathological examination activities for the purposes of clinical diagnosis</u></p> <p>Immunohistochemistry to detect the following:</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>Identification of: Immunoglobulins and complement</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>Ventana Bench Mark Ultra CP-IMM-SOP-19</p> <p>ALKD5F3</p> <p>HER-2</p> <p>PD-L1</p> <p>FAC 13A</p> <p>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</p> <p>IgG</p> <p>C3</p>	A



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HUMAN BODY TISSUE SAMPLES	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):	A
Fresh frozen renal tissue	Identification of: Immune deposits in glomerular membranes and mesangium	Direct Immunofluorescence technique: Documented in-house procedures in conjunction with manufacturer's instructions using DAKO FITC-conjugated antibodies Manual techniques CP-IMM-SOP-16 C3 IgA IgG IgM Kappa Lambda C1q	
Breast Lymph node tissue (fresh unfixed)	<u>Molecular Pathology</u> Detection of expression level of cytokeratin 19 normally not present in lymph node tissue, breast lymph node fresh unfixed tissue	One Step Nucleic Acid Amplification (OSNA) OSNA analyser Sysmex RD-210 and Lynoamp Kit. CP-HIS-SOP-16 OSNA reporting CP-HIS-SOP-16	



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<p>HUMAN BODY TISSUE SAMPLES</p> <p>Stained slides prepared as above</p> <p>Breast 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></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>Chromogenic in situ hybridisation (CISH)</p> <p>Epstein Barr Virus RNA</p> <p>Human Papilloma Virus genomic probe cocktail used for the identification of the following genotypes: 16, 18, 31, 33, 35, 45, 51, 52, 56, 58 and 66.</p> <p>Mutation screening</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>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>Automated techniques using Ventana Benchmark Ultra CP-IMM-SOP-19 and CISH probes</p> <p>INFORM EBER probe</p> <p>HPV III Family 16 probe</p>	<p>A</p>



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HUMAN BODY TISSUE SAMPLES	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	In house documented procedures using manual methods or analysers in conjunction with manufacturer's instructions for the following methods (where relevant):	A
Tissue block	<u>Molecular Pathology</u> Morphological assessment and interpretation/diagnosis BRAF mutation screening	Automated techniques using Biocartis Idylla CP-MOL-SOP-25 CP-MOL-SOP-22	
FFPE samples, vitrous fluid, whole blood	EGFR mutation screening DNA extraction	Automated technique using QIAcube CP-MOL-SOP-23 Manual technique CP-MOL-SOP-4	
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-16	
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	
END			