


# 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</p> <p>8162</p> <p>Accredited to ISO 15189:2022</p>	<p><b>Nottingham University Hospitals NHS Trust</b></p> <p>Issue No: 013 Issue date: 27 June 2025</p>	
	<p>Cellular Pathology City Hospitals Hucknall Road Nottingham NG5 1PB</p>	<p>Contact: Paul Chenery Tel: +44 (0) 0115 9249924 Ext 83530/76938 Fax: +44 (0) 115 9709479 E-Mail: Paul.Chenery@nuh.nhs.uk Website: <a href="https://www.nuh.nhs.uk/cellular-pathology">https://www.nuh.nhs.uk/cellular-pathology</a></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	Activity	Location code
<p><b>Address</b> Cellular Pathology Department Queen's Medical Centre Campus Derby Road Nottingham NG7 2UH</p> <p><b>Local contact</b> Name: Paul Chenery</p>	<p>Sample reception Dissection Processing including decalcification Embedding Microtomy Routine Stains Special Stains Immunofluorescence and Enzyme histochemistry Frozen Sections Non-Gynae Cytology Neuropathology Paediatric pathology Reporting across all areas of Histology Microscopy Reporting Photographic &amp; Digital Imaging including digital slide scanning</p>	A
<p>Cellular Pathology Department City Hospital Campus Hucknall Road NG5 1PB</p> <p style="text-align: right;">As above</p>	<p>Sample reception Dissection Frozen Sections HMDN including immunophenotyping and morphology Reporting across all areas of Histology</p>	B
<p>Treatment Centre Queen's Medical Centre Campus Derby Road Nottingham NG7 2UH</p> <p style="text-align: right;">As above</p>	<p>Mohs and intraoperative frozen sections H&amp;E stains Morphological assessment and interpretation/diagnosis</p>	C



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**Site activities performed away from the locations listed above:**

<b>Location details</b>	<b>Activity</b>
On-site Body Store Queen's Medical Centre Campus Derby Road Nottingham NG7 2UH	Mortuary Services (body receipt, storage and release)
On-site Body Store City Hospital Campus Hucknall Road NG5 1PB	Mortuary Services (body receipt, storage and release)
Renal Clinic City Hospital Campus Hucknall Road NG5 1PB	Adequacy of sample assessment
Renal Clinic Queen's Medical Centre Campus Derby Road Nottingham NG7 2UH	Adequacy of sample assessment



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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
<p>HUMAN BODY TISSUE AND FLUIDS</p> <p>Fixed and fresh tissue, excisional and incisional biopsies and surgical resection specimens</p>	<p><u>Histopathological Examination activities for the purposes of clinical diagnosis.</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>Macroscopic and Microscopic examination:</p> <p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Tissue Dissection using SOPs - IN1699, IN1736, IN5732, IN5752, IN5823, IN5824, IN5826, IN5827, IN5828, IN5830, IN5831, IN5832, IN5833, IN5834, IN5835, IN5836, IN5837, IN5838, IN5841, IN5842, IN5843, IN5844, IN5845, IN5846, IN5847, IN5848, IN5849, IN5850, IN5851, IN5852, IN5853, IN5854, IN5857, IN5858, IN5859, IN5861, IN5863, IN5865, IN5869, IN5870, IN5871, IN5872, IN5873, IN5874, IN5875, IN5876, IN5877, IN5878, IN5879, IN5880, IN5881, IN5882, IN5883, IN5884, IN5885, IN5889, IN5890, IN5891, IN5892, IN5893, IN5894, IN5895, IN5897, IN5898, IN5900, IN5901, IN5902, IN5903, IN5904, , IN5931, IN5932, IN5939, PL155, , IN5736, IN5829, IN5862, IN6468, IN6473, IN6478, IN6579, IN6580, IN6581, IN6608, IN6770, IN6775, IN6776, IN6777, IN6778, IN6779, IN6780, IN6781, IN6789, IN6791, IN6792, IN6804, IN6816, IN6820, IN6837, IN7106, and PR3024</p> <p>Tissue processing using Sakura VIP 6 using SOP – PR3926 VIP6TPInst</p> <p>Embedding Sakura Tissue-Tek 6 embedding centre – ME752 SOP PR3951</p>	A



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fixed and fresh tissue, excisional and incisional biopsies and surgical resection specimens contd</p> <p>Fixed and fresh tissue, excisional and incisional biopsies and surgical resection specimens</p>	<p><u>Histopathological Examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis contd.</p> <p>Routine staining for identification of basophilic and eosinophilic structures</p>	<p>Macroscopic and Microscopic examination:</p> <p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Microtomy Leica HistoCore MULTICUT microtome ME2755 using IN1668</p> <p>Frozen section PR1904 – Frozen section slide production and IN1670 - H&amp;E method instructions PR1978 – Urgent Neuropathology frozen IN1810 -H&amp;E Neuro instructions PR3924 - Production of Frozen Sections for IMF Cryostats –Leica CM1950</p> <p>Routine FFPE H &amp; E staining PR3943 - <u>Histology Paraffin Wax Slide Production (microtomy) and H&amp;E staining.</u></p> <p>MOHS Laboratory Thermo Linistat stainer – ME744 and IN1724</p> <p>Manual staining: City and QMC Surgical – IN1670 QMC – Specialist – IN1810</p>	<p>A</p> <p>A, B, C</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological Examination activities for the purposes of clinical diagnosis.</u> (cont'd)	Macroscopic and Microscopic examination:	
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides.	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Documented in house methods incorporating manufacturers' instructions where relevant:  Macroscopic and Microscopic examination:  Manual special stains PR1905 – Specials and Extra requests.	
	Acid fast bacilli	<u>Ziehl-Neelsen</u> Method - IN1689	A
	Pneumocystis/Fungi	Grocott method IN1677	A
	Acid mucins	Alcian blue – IN1691	A
	Amyloid	Congo red – IN1673	A
	Mucins / glycogen	DAB/PAS method – IN1672	A
	Elastin/collagen/muscle/ RBC	EVG – IN1674	A
	Non-acid fast bacteria	Gram – IN2017	A
	Basement membranes	Methenamine Silver Method – IN1679	A
	Melanin	Masson Fontana Method – IN1680	A
	Muscle, red blood cells, fibrin, connective tissue	Masson Trichrome Method – IN1681	A
	Fibrin,muscle,collagen,RBC	MSB Method – IN1682	A
	Ferric iron	Perls' method – IN1683	A
	Mucins / glycogen	DPAS Method – IN1684	A
Reticulin fibres (collagen)	Reticulin Method – IN1685	A	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological Examination activities for the purposes of clinical diagnosis.</u> (cont'd)	Macroscopic and Microscopic examination:	
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides. (cont'd)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Manual special stains PR1905 – Specials and Extra requests	A
	Hep B surface antigen	Shikata's Orcein Method – IN1686	A
	Acid mucins	AB pH 2.5 Method – IN1691	A
Frozen sections	Lipids	Oil Red O Method – IN1693	A
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Roche BenchMark Special Stainers following manufacturer's instructions and PR1905 – Special Stains and Additional Requests	A
	Glycogen	IN1684 PAS method	
	Basement membrane zone	IN1684 PAS method	
	Glycogen	IN1684 DPAS method	
	Acid mucins	IN1691 Alcian Blue	
	Acid mucins, Neutral Mucins & Mixed Mucins	IN1672 Alcian Blue PAS	
	Acid mucins, Neutral Mucins & Mixed Mucins	IN1672 Alcian Blue DPAS	
	Acid Fast Bacteria	IN1689 Modified Ziehl-Neelsen	
	Ferric Iron	IN1683 Perls	
	Reticulin fibres	IN1685 Reticulin method	
	Basement membranes	IN1679 Jones Basement Membrane stain	
	Pneumocystis/Fungi	IN1677 Modified Grocott (GMS)	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Histopathological Examination activities for the purposes of clinical diagnosis.</u> (cont'd)	Macroscopic and Microscopic examination:	
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont)	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont)	Roche BenchMark Special Stainers following manufacturer's instructions and PR1905 – Special Stains and Additional Requests (cont)	A
	Muscle, red blood cells, fibrin, connective tissue	IN1681 Trichrome (Blue CS)	
	<u>Enzyme Histochemistry activities for the purposes of clinical diagnosis</u>	Microscopic examination	
Frozen sections muscle tissue and FFPE muscle sections on glass slides	Examination of tissues to identify or exclude enzymatic abnormalities for the purpose of diagnosis	Manual enzyme histochemistry methods PR 1987	A
	Demonstrate COX positivity in skeletal muscle fibres	Combined Cytochrome oxidase(COX) and Succinate Dehydrogenase (SDH) - IN1809	A
Frozen sections muscle tissue and FFPE muscle sections on glass slides (cont'd)	Examination of tissues to identify or exclude enzymatic abnormalities for the purpose of diagnosis (cont'd)	Manual enzyme histochemistry methods PR1987	A
	Demonstrates glycogenoses	PAS for frozen sections IN2006	A



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides</p>	<u>Immunochemistry examination for the purposes of clinical diagnosis</u>	Microscopic examination supported by automated staining with positive and negative controls:	
		Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs IN3199 and IN1967	A
	Adrenocorticotrophic hormone, pituitary tumours	ACTH	A
	Cytokeratin – classification of tumours of epithelial origin	AE1/AE3	A
	Alpha-1-fetoprotein, classifying neoplastic liver disease and germ cell tumours	AFP	A
	Inflammatory myofibroblastic tumors in lung tissue	ALK1 (D5F3 Lung)	A
	Classification of anaplastic large cell lymphoma	ALKProtein (CD246)	A
	Identification of alpha-1 antitrypsin accumulation in hepatocytes of A1AT deficient liver	Alpha-1 anti-Trypsin	A
	Classification of ovarian sex cord and stromal tumours	Alpha Inhibin	A
	Identification and classification of AA-amyloidosis	Amyloid A	A
Follicular lymphoma. Various B and T cell lymphoproliferative diseases	BCL 2	A	
Classification of B cell lymphomas, follicular lymphomas and Burkitts lymphoma	BCL 6	A	



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		<p>Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs IN6742 and PR1967</p>	A
	<p>Labels most epithelial cells, differentiation of adenocarcinoma versus malignant mesothelioma</p>	<p>BerEP4</p>	A
	<p>Identification of senile plaques in brain / Alzheimer's disease</p>	<p>Beta-Amyloid (βA4)</p>	A
	<p>ID of desmoid tumours and colorectal cancer / adenoma</p>	<p>Beta (β)-Catenin</p>	A
	<p>Identification of B-cells in germinal centres, differentiation of lymphomas</p>	<p>BOB1</p>	A
	<p>Complement C4 demonstration</p>	<p>C4D</p>	A
	<p>Tumour marker – pancreatic adenocarcinoma</p>	<p>CA 19.9</p>	A
	<p>Mucin-like glycoproteins – variety of tumours, classification of adenocarcinomas.</p>	<p>CA125</p>	A
	<p>Calcitonin producing C cells – medullary thyroid carcinoma</p>	<p>Calcitonin</p>	A
	<p>Classification of tumours of smooth muscle</p>	<p>Caldesmon</p>	A
<p>Smooth muscle cells Normal and neoplastic mesothelial cells</p>	<p>Calponin Calretinin</p>	A	
<p>Cytokeratin 7&amp;8 on secretory epithelium – identifies tumours of epithelial origin</p>	<p>CAM 5.2</p>	A	



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	CD1a positive cells in normal and neoplastic tissue	CD1a	A
	Labels normal T-Cells and related neoplasms and differentiation of T cell lymphomas	CD2	A
	Classification of T-Cell neoplasms	CD3	A
	Thymocytes and T helper cells – identifying anaplastic T-Cell lymphoma	CD4	A
	ID of B and T cell malignancies	CD5	A
	Peripheral blood T cells, NK cells, and all thymocytes	CD7	A
	Cytotoxic suppressor T Cells	CD8	A
	ID of Burkitts' lymphoma, follicular lymphoma, ALL and renal carcinoma (clear cell)	CD10	A
	B cells and identification of neoplasms of B cell derivation	CD20	A
Follicular dendritic cells and mature B cells, lymphoma	CD21	A	
CD34 is a useful marker for the identification of vascular and lymphatic tumours and for the sub classification of leukaemia's	CD23	A	



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		Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs IN6742and PR1967	A
	B cell activator proteins	CD25	A
	Normal B lymphocytes and malignant lymphomas	CD30	A
	Activated T and B cells	CD31	A
	Anaplastic large cell Lymphoma, Reed-Sternberg cells, Hodgkin's	CD34	A
	Low-grade B-cell lymphomas and myeloid disorders.	CD43	A
	T and B cells, monocytes, granulocytes, erythrocytes, epithelial cells and mast cells	CD44	A
	Identification of NK cells, neural / neuroendocrine tissue,carcinoid	CD56	A
	T Cells, oligodendromas and neuroendocrine tumours	CD57	A
	Detection of activated platelets, neutrophils and basophils	CD68	A
	Mononuclear phagocytes	CD79a	A
	B cells and B Cell neoplasms	CD99 (Mic2)	A
Ewing's sarcoma marker	CD117 (C kit)	A	
Transmembrane tyrosine kinase receptors	CD138	A	



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		Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs IN6742 and PR1967	A
	Terminally differentiated plasma cells	CDX2	A
	CEA expressing cells	CerbB2	A
	Prognostic indicator for breast cancer	Chromogranin A	A
	Neuroendocrine differentiation	CD63 see NKIC3	A
	Differentiation between squamous cell carcinoma and adenocarcinoma	CK5/6	A
	Glandular and transitional epithelial cells	CK7	A
	Basal cell compartments of stratified and combined epithelia	CK14	A
	Differentiation and identification of epithelial tumours (1) and epithelioid hemangioendotheliomas	CK18	A
Identification of epithelial tumours, and may be useful in identifying cholangiocellular carcinomas	CK19	A	
Normal and abnormal gastric and intestinal epithelium, urothelium and Merkel cells	CK20	A	
Identification of mantle cell lymphomas	Cyclin D1	A	



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	<p>Identification of lymphatic invasion</p>	<p>D240 (Podoplanin)</p>	A
	<p>Labels smooth and striated muscle cells as well as mesothelial cells, identification of rhabdomyosarcomas, leiomyomas and mesotheliomas</p>	<p>Desmin</p>	A
	<p>Differential diagnosis of gastrointestinal stromal tumours</p>	<p>Dog1</p>	A
	<p>Labels Epstein-Barr virus-infected cells expressing the latent membrane protein (LMP), identification of tumor cells in Epstein-Barr virus-associated Hodgkin's disease and nasopharyngeal carcinoma</p>	<p>EBV</p>	A
	<p>E-cadherin-positive cells in normal and neoplastic tissues</p>	<p>E-Cadherin</p>	A
	<p>Emery-Dreifuss muscular dystrophy</p>	<p>Emerin</p>	A



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		<p>Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs IN6742 and PR1967</p>	A
	<p>Labels estrogen receptor <math>\alpha</math>-positive cells and is useful in the assessment of estrogen receptor status in human breast carcinomas</p>	ER	A
	<p>Fibrinolytic, skin disorders</p>	Factor XIIIa	A
	<p>Labels follicle stimulating hormone in normal and neoplastic tissue</p>	FSH	A
	<p>Labels cells producing gastrin or structural gastrin analogues</p>	Gastrin	A
	<p>Expressed in mammary gland and several exocrine tissues</p>	GCDFP15	A
	<p>Glial fibrillary acidic protein (GFAP) is the principal intermediate filament of mature astrocytes</p>	GFAP	A
	<p>Insulin positive cells in normal and neoplastic tissues using immunohistochemical</p>	Glucagon	A
	<p>Intrinsic membrane protein of erythrocytes</p>	Glycophorin A	A
<p>Labels erythroid cells at almost all stages of differentiation and is a useful tool for the ID of erythroleukaemia</p>	Glypican 3	A	



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		<p>Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs IN6742 and PR1967</p>	
	<p>Activated human cytotoxic T lymphocytes (CTL) and natural killer (NK) cells</p>	<p>Granzyme B</p>	
	<p>Mesothelial cells both benign and malignant</p>	<p>HBME1</p>	
	<p>Labels hCG-containing cells and used for the demonstration of trophoblastic elements, e.g. in germ cell tumours</p>	<p>HCG</p>	
	<p>Identification of hairy cell leukaemia and lymphomas</p>	<p>HCL</p>	
	<p>Antibody labels hepatocytes and is a useful tool for the differential diagnosis of hepatocellular tumours in general</p>	<p>Hepatocyte</p>	
	<p>Determine HER2 gene amplification in formalin-fixed, paraffin-embedded breast cancer tissue specimens</p>	<p>HER2</p>	
	<p>Identification of HHV, the likely aetiological agent of Kaposi's sarcoma</p>	<p>HHV-8</p>	
<p>Classification of thymomas and malignancies of T-cell precursors</p>	<p>HLA Class I (MHC)</p>	A	



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)</p>	<p><u>Immunochemistry examination for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Classification of melanomas and melanocytic lesions and also aid in distinguishing metastatic amelanotic melanomas from other poorly differentiated tumours of uncertain origin</p> <p>Marker for differentiation of high grade invasive urothelial carcinoma from prostate cancer</p> <p>Detection of HPV infected cells</p> <p>Detection of HSV in human cellular material</p> <p>Glioma differentiation, low grade astrocytoma</p> <p>Insulin positive cells in normal and neoplastic tissues</p> <p>Ki-67 antigen in normal and neoplastic cells e.g soft-tissue sarcoma, prostatic adenocarcinoma, and breast carcinoma</p> <p>Defects in LAMA2 cause of merosin-deficient congenital muscular dystrophy</p> <p>Identifies uteinizing hormone in normal and neoplastic tissue</p>	<p>Microscopic examination supported by automated staining with positive and negative controls:</p> <p>Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs IN6742 and PR1967</p> <p>HMB-45 (DAB chromogen only)</p> <p>HMWCK</p> <p>HPV</p> <p>HSV I</p> <p>IDH-1</p> <p>Insulin</p> <p>Ki67</p> <p>Laminin Alpha 2 300 kD</p> <p>LH</p>	<p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p> <p>A</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)</p>	<p><u>Immunochemistry examination for the purposes of clinical diagnosis</u> (cont'd)</p>	<p>Microscopic examination supported by automated staining with positive and negative controls:</p>	
		<p>Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs IN6742 and PR1967</p>	A
	<p>Labels normal and neoplastic cells, and is a useful tool for identifying T-cell lymphomas, and for the differentiation of low-grade B-cell from T-cell lymphomas</p>	LCA (CD45)	A
	<p>Myelin basic protein positive cells in normal and neoplastic tissues</p>	MBP (Myelin Basic Protein)	A
	<p>Marker of mast cell activation</p>	MCT (Mast Cell Tryptase)	A
	<p>Labels melanocytes and identification of melanomas, and, if melanoma is ruled out, for adrenocortical carcinomas</p>	Melan A (Mart 1)	A
	<p>Differential identification of colorectal carcinoma</p>	MLH1	A
	<p>Epithelial tissues from simple glandular to stratified squamous epithelium and identification of normal and neoplastic cells of epithelial origin</p>	MNF116	A
	<p>Differential identification of colorectal carcinomas</p>	MSH2 MSH6	A
	<p>Positive cells in normal and neoplastic tissues</p>	Myo D1	A
<p>Myeloperoxidase-positive cells in normal and neoplastic tissues and discrimination between lymphoid and myeloid disorders</p>	MPO (Myeloperoxidase)	A	



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)</p>	<p><u>Immunochemistry examination for the purposes of clinical diagnosis</u> (cont'd)</p>	<p>Microscopic examination supported by automated staining with positive and negative controls:</p>	
		<p>Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs IN3200</p>	A
	<p>Identification of mucinous adenocarcinoma of gastrointestinal origin and intestinal metaplasia in Barrett's esophagus</p>	Muc-2	A
	<p>Differentiation between primary mucinous ovarian cancer and colon adenocarcinoma metastatic to the ovary</p>	Muc-5AC	A
	<p>Labels the MUM1 protein, which is expressed in a subset of B cells in the light zone of the germinal centre plasma cells, activated T cells, and a wide spectrum of related haematolymphoid neoplasms</p>	MUM1	A
	<p>Skeletal muscle – classification of rhabdosarcomas / Wilms tumour</p>	Myogenin	A
	<p>Serves as a reserve supply of oxygen within muscles</p>	Myoglobin	A
	<p>Neuronal tumours</p>	NFP	A
	<p>Lymphoid restricted immunoglobulin octamer binding antibody</p>	OCT 2	A
	<p>Expressed in developing brain</p>	OCT 3-4	A
<p>Tumour suppressor gene</p>	P16	A	
<p>Identification of p53 in normal and neoplastic tissue</p>	P53	A	



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)</p>	<p><u>Immunocytochemistry examination for the purposes of clinical diagnosis</u> (cont'd)</p>	<p>Microscopic examination supported by automated staining with positive and negative controls:</p> <p>Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs PR1968 and PR1967</p>	A
	<p>A basal epithelial cell proliferation regulator, identification of prostate adenocarcinoma as an aid in the differentiation between benign prostate lesions and prostate adenocarcinoma</p>	P63	A
	<p>Differentiated neuronal tumours.</p>	NFP	A
	<p>B-cell-specific activator protein ID of pro-, pre-, and mature B cells and in the classification of lymphomas</p>	PAX-5	A
	<p>Ligand 1 protein in NSCLC</p>	PD-L1	A
	<p>Plays a key role in secretory granule-dependent cell death, and in defense against virus-infected or neoplastic cells</p>	Perforin	A
	<p>Differentiation of neuroendocrine tumours</p>	PGP	A
	<p>Prostate needle cores differentiation between HGPIN and adenocarcinoma</p>	PIN4	A
	<p>identification of seminomas and desmoplastic small round cell tumors and identification of germ cell tumours</p>	PLAP	A
	<p>Differential identification of colorectal carcinomas</p>	PMS2	A



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)</p>	<p><u>Immunochemistry examination for the purposes of clinical diagnosis</u> (cont'd)</p>	<p>Microscopic examination supported by automated staining with positive and negative controls:</p>	
		<p>Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs PR1968 and PR 1967</p>	A
	<p>Classification of pituitary adenomas</p>	<p>Prolactin</p>	A
	<p>Identification of prostate adenocarcinoma</p>	<p>Racemase (AMACR)</p>	A
	<p>Lung Carcinoma</p>	<p>ROS1</p>	A
	<p>Identification of S100-positive neoplasms, such as malignant melanoma, Langerhans' histiocytosis, chondroblastoma and schwannoma</p>	<p>S-100</p>	A
	<p>Smooth muscle cells, myofibroblasts and myoepithelial cells, and leiomyosarcomas and pleomorphic adenomas</p>	<p>Smooth Muscle Actin</p>	A
	<p>Classification of breast tumours</p>	<p>Smooth Muscle Myosin</p>	A
	<p>Erythrocyte structure / actin cytoskeleton</p>	<p>Spectrin</p>	A
<p>Identification of neuroendocrine neoplasms, including neoplasms of epithelial type, ID of nervous system neoplasms with neuronal differentiation and ID of adrenocortical neoplasm</p>	<p>Synaptophysin</p>	A	
<p>Classification of precursor B- and T-cell acute lymphoblastic lymphoma/leukemia (ALL) and thymoma</p>	<p>TdT</p>	A	



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HUMAN BODY TISSUE AND FLUIDS (cont'd)  Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	<u>Immunochemistry examination for the purposes of clinical diagnosis</u> (cont'd)	Microscopic examination supported by automated staining with positive and negative controls:  Automated equipment Ventana Benchmark Ultra Immunostainers – ME633 SOPs PR1968 and PR1967	A
	Thyroid transcription factor-1 in normal and malignant cells	TTF1	A
	Cells of mesenchymal origin in normal and neoplastic tissues, and is of value in tumour diagnosis	Vimentin	A
	Classification of Wilm's tumour, malignant mesothelioma and serous ovarian adenocarcinoma	WT1	A
Frozen tissue (Skin and Renal)	<u>Immunofluorescence examination for the purposes of clinical diagnosis</u>	Microscopic examination supported by manual labelling of tissue with fluorescent antibodies based on SOP PR3924	
	Detection of antigens to IgG	IgG	A
	Detection of antigens to IgM	IgM	A
	Detection of antigens to IgA	IgA	A
	Detection of antigens to C3	C3	A
	Detection of antigens to C1q	C1q	A
Detection of antigens to Lamda	Lamda	A	
Detection of antigens to Kappa	Kappa	A	
Fresh tissue samples	Basophilic and Eosinophilic tissue structures	Frozen sections (intraoperative and Mohs) using Leica CM1950 Sectioning Cryostat Eprexia Cryostar NX50 Cryostat - ME2561 and H & E staining using: documented in house procedures – PR1901 and PR1902 In conjunction with manufacturer's instructions for: Linistainer autostainer	C



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>FFPE Slides prepared in house from tissue samples including excisional and incisional biopsies and surgical resection specimens</p> <p>FFPE Slides prepared in house from tissue samples including excisional and incisional biopsies and surgical resection specimens</p>	<p><u>Histopathological Examination activities for the purposes of clinical diagnosis</u></p> <p>Morphological assessment and interpretation/diagnosis</p> <p>Digital slide scanning for morphological assessment and diagnosis</p>	<p>Microscopic examination:</p> <p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Microscopy (qualitative analysis) In house procedures: PR1870 – Production of reports – surgical and post mortem. PR1879 – Skin specimens – reporting guidelines PR2015 – Gyneacological reporting procedures PR2017 – Reporting Paediatric GI specimens PR2018 – Placental reporting – surgical Using Leica, Nikon and Olympus Microscopes</p> <p>Digital Pathology Hamamatsu slide scanner S360, Hamamatsu slide scanner S60 following SOP IN7238 and Indica Lab Halo following SOP IN7236.</p>	<p>A, B</p> <p>A, B</p>



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<p>HUMAN BODY FLUIDS</p> <p>Fine Needle Aspirations, Sputa, Bronchial Washings, Bronchial Brushings, Urines, Joint, Cyst And Serous Fluids, Serous Effusions, CSF</p> <p>Slides prepared in house from the sample types listed above.</p>	<p><u>Non-Gynaecological (Diagnostic) Cytopathology Preparation and screening for detection or exclusion of pathological abnormalities</u></p>	<p>Macroscopic and Microscopic examination:</p> <p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Sample preparation using Megafuge centrifuge Thermo cytopspin Prisma staining machine Class II cabinets at QMC Leica Microscopes Nikon Microscopes Olympus Microscopes Preparing FNA, smears and brushings and cytoblocks – PR1816 NUH Cell Path Production of Diagnostic Cytology Slides plus IN1514, IN1516, IN1518, IN3093, IN3790</p>	A
	<p>Staining for the purposes of: Cell differentiation</p>	<p>Automated: Papanicalou Stain May Grunwald Giemsa using Prisma staining machine ME2539 PR1816 – Production of Diagnostic Cytology slides</p>	
	<p>Morphological assessment and interpretation/diagnosis</p>	<p>Microscopy (qualitative analysis) In house procedures: PR1870 – Production of reports – surgical and post mortem.</p>	A, B



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Haematological examinations for the purpose of haematological malignancy diagnosis</u>	Documented in house methods incorporating manufacturers' instructions where relevant:	
Blood, bone marrow films, fluid aspirates, tissue samples	Aspirate morphology	RAL/MGG staining  Shandon Varistain Gemini Semi Automated Stainer and preparation of MGG Stain PR3355  Perl's Iron Stain using Sigma Aldrich Accustain Iron Stain Kit HT20 PR3499	B
Blood Bone Marrow CSF Ascetic Fluid Pleural Fluid	Immunophenotyping of the following markers/antigens to diagnose the following – <ul style="list-style-type: none"> <li>Acute Leukaemia – AML, B-ALL and T-ALL</li> <li>Chronic Myeloid disorders- MDS</li> <li>Mature Lymphoid Disorders- B &amp; T Lymphoproliferative disorders</li> <li>Paroxysmal Nocturnal Hemoglobinuria (PNH)</li> </ul> CD34 CD7; CD33 CD15; CD13 HLADr; CD64 CD14; CD19 CD56; MPO CD117 CD3; CD235a CD5; CD10; CD20; CD22; CD23; CD38; CD43; CD45; CD79b; FMC7; Kappa Lambda	Flow Cytometry on the BD FACS lyric cytometer and use of the lyse assist sample prep.PR3738  Integrated reporting using IN5656 Winpath v5.	B
END			