


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 8038</p> <p>Accredited to ISO 15189:2012</p>	Cambridge University Hospitals NHS Foundation Trust	
	Issue No: 003 Issue date: 23 December 2019	
Histopathology CUHFT Box 235 Addenbrookes Hospital Hills Road Cambridge CB2 0QQ	Contact: John Brown Tel: +44 (0)1223 256100 Fax: +44 (0)1223 216980 E-Mail: John.brown16@nhs.net Website: https://www.cuh.nhs.uk/services/histopathology-and-cytology	
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 Histopathology Box 235 Addenbrookes Hospital Hills Road Cambridge CB2 0QQ	Local contact John Brown	Histopathology Neuropathology Non-gynae cytology Microtomy Immunohistochemistry Electron microscopy	ADDHIS
Address Newmarket Cytology Westbrooke House Fordham Road Newmarket Suffolk CB8 7XN	Local contact John Brown	Cervical cytology processing Cervical screening HPV testing	NMKT
Address Colchester Cytology Colchester Hospital Colchester CO4 5JL	Local contact John Brown	Cervical screening on supplied prepared slides	COLCH
Address MOHS Clinic Addenbrookes's Out Patients Department Addenbrookes Hospital Hills Road Cambridge CB2 0QQ	Local contact John Brown	Frozen sections	MOHS



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Site activities performed away from the locations listed above:

Location details	Activity	Location code
<p>Address Histopathology. Store Room, Level 1 Addenbrookes Hospital Hills Road Cambridge CB2 0QQ</p> <p>Local contact John Brown</p>	Storage of Specimens only	



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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 TISSUE	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>	Documented in-house procedures	
Fresh and Fixed tissue	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	In House documented methods for staining and examination, all supported by SOPs and where relevant, manufacturer's instructions for the following methods where relevant): <u>Specimen Dissection</u> Exakt Diamond Band Saw Sakura IDent Cassette printer Vogel VCP3001 Cassette printer Sartorius QC7 CC35 balance ADD.HIS 2181 ADD.HIS 5604 ADD.HIS 5605	ADDHIS ADDHIS
Fixed and fresh tissue, excisional and incisional biopsies and surgical resection specimens		<u>Tissue Processing</u> Thermo Shandon Excelsior processor Leica Peloris processor ADD.HIS 5603	ADDHIS
Formalin fixed calcified tissue		<u>Decalcification</u> Raymond Lamb incubator ADD.HIS 5642	ADDHIS
Formalin fixed tissue samples as above		<u>Embedding</u> Leica EG1160 Embedding centre Leica EG1150 Embedding centre ThermoFisher Scientific Paratrimmer Heated Forceps ADD.HIS 5572	ADDHIS
Paraffin wax embedded tissue as above		<u>Microtomy</u> Leica RM2245 Rotary microtome Floation baths ADD.HIS 5633	ADDHIS



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u>	Documented in-house procedures (cont'd)	
	<u>Histopathological examination activities for the purposes of HODS clinical diagnosis</u>		
Fresh and fixed BMT specimens	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	In-house documented methods for examination and processing of BMT tissues, all supported by SOP's and where relevant, manufacturer's instructions for the following methods where relevant:	ADDHIS
Formalin fixed BMT tissue		<u>Specimen Dissection</u> ADD.HIS 5605	ADDHIS
Formalin fixed BMT tissue		<u>Decalcification</u> Menarini Bone stations ADD.HIS 5722	ADDHIS
Formalin fixed wax embedded tissue		<u>Tissue Processing</u> ExcelsiorAsS processor ADD.HIS 5603	ADDHIS
		<u>Embedding</u> Leica Histocore Embedding centre Paratimmer Heated Forceps ADD.HIS 5612	ADDHIS
HUMAN BODY TISSUE	<u>Histopathological examination activities for the purposes of clinical diagnosis</u>		
	Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	In House documented methods for staining and examination, all supported by SOPs and where relevant,, manufacturer's instructions for cutting up, processing, embedding, sectioning, staining, microscopic assessment and pathologist reporting:	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology</u> (cont'd)	Documented in-house procedures (cont'd)	
Formalin fixed paraffin-embedded tissue (FFPE)	Routine Staining For the demonstration of basophilic and eosinophilic structures	<u>Haematoxylin and Eosin Staining</u> Automated and manual Leica XL autostainer Leica CV5030 Coverslipper Corsair TBS slide drying oven ADD.HIS 5711	ADDHIS
Fresh tissue	Handling and preparation of fresh and frozen tissue for intra-operative diagnosis	<u>Cryotomy</u> Specimen preparation and dissection Leica CM1850UV Cryostat Labcaire class 1 microbiology safety cabinet ADD.HIS 32166	ADDHIS
Frozen sections	Routine Staining of frozen sections for the demonstration of basophilic and eosinophilic structures	<u>Haematoxylin and Eosin Staining</u> Automated staining on Thermo Lini-stainer ADD.HIS.32166	ADDHIS
	Lipid	Oil Red O ADD.HIS 31724	
FFPE	<u>Special stains for the detection of:</u>	<u>Special Stains</u> Documented in-house manual procedures using stains as indicated:	ADDHIS
	Acid Mucins	Alcian Blue ADD.HIS 31709	
	Acid and neutral mucins	Alcian Blue Periodic Acid –Schiff with/ without Diastase ADD.HIS5962	
	Acid Mucins	Alcian Blue with Hyaluronidase digestion ADD.HIS 32340	
	Calcium	Alizarin Red S ADD.HIS 32179	



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u>	Documented in-house procedures (cont'd)	ADDHIS	
	<u>Special stains (cont'd)</u>			
	Esterase activity			Chloroacetate Esterase ADD.HIS 31755
	Liver cells			Chromotrope Aniline Blue ADD.HIS 31753
	Amyloid			Congo Red ADD.HIS 31756
	Elastin			Elastic Picro Sirius Red ADD.HIS 976
	Bile pigments			Fouchet ADD.HIS 31760
	Helicobacter Pylori			Giemsa ADD.HIS 31712
	Haemopoetic cells			Giemsa ADD.HIS 31761
	Bacteria			Gram ADD.HIS 5875
	Bacteria			Gram Twort ADD.
	Fungi			Grocott ADD.HIS 31713
	Connective tissue			Haematoxylin Ponceau S and Haematoxylin van Gieson ADD.HIS 5924
Muscle striations Skeletal and cardiac)	Mallory's Phosphotungstic Acid-Haematoxylin ADD.HIS 31773			
Fibrin, connective tissue	Martius Scarlet Blue ADD.HIS 31722			



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Special Stains (cont'd)</u> Melanin Connective tissue Melanin Bleach Elastin Spirochetes Acid Fast Bacilli (e.g atypical Mycobacterium tuberculosis) Acid mucins Glomerular basement membrane Neutral mucins, polysaccharides including glycogen Acid and neutral mucins, polysaccharides including glycogen Ferric iron Collagen	Documented in-house procedures (cont'd) Masson Hamperl ADD.HIS 31715 Masson's Trichrome ADD.HIS 31723 Melanin Bleach ADD.HIS 1242 Miller's Elastic Stain - Ponceau S or van Gieson ADD.HIS 5862 Modified Steiner ADD.HIS 31730 Modified Ziehl Neelsen ADD.HIS5874 Mucicarmine ADD.HIS 31733 Periodic Acid (Jones' Hexamine) Silver ADD.HIS 31729 Periodic Acid Schiff (PAS) ADD.HIS 5962 Periodic acid-Schiff (PAS) with Diastase ADD.HIS 5962 Perls ADD.HIS 31758 Picro-sirius red ADD.HIS 5924	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Special Stains (cont'd)</u> Reticulin fibres Copper Elastin, copper associated protein and hepatitis B antigen infected cells Amyloid Mast cells Elastin, copper associated protein and hepatitis B antigen infected cells Calcium salts Acid Fast Bacilli e.g Mycobacterium leprae) Acid Fast Bacilli e.g Mycobacterium tuberculosis)	Documented in-house procedures (cont'd) Reticulin ADD.HIS 31716 Rhodanine ADD.HIS 31728 Shikata's Orcein ADD.HIS 31719 Sirius Red ADD.HIS 32226 Toluidine Blue ADD.HIS 31732 Victoria Blue ADD.HIS 32329 Von Kossa ADD.HIS 31734 Wade Fite modification of ZN ADD.HIS 31735 Ziehl Neelsen ADD.HIS 5874	ADDHIS
Paraffin wax tissue sections	<u>Immunohistochemistry to detect the following</u> Identification of hepatocytes in alpha-1 antitrypsin	Documented in-house methods used in accordance with Leica's operating instructions for the use of Bond 3 automated immunostainers ADD.HIS.5678 ADD.HIS.32357 Incorporating the following antibodies: Alpha-1-antitrypsin	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Liver disease, yolk sac tumours and mixed germ cell tumours Pituitary tumours Smooth muscle actin Lipid marker Anaplastic large cell lymphomas (ALCL) that are ALK positive Amyloid Secondary amyloidosis Anaplastic gliomas and IDH mutant astrocytic tumours Malignant rhabdoid tumours and atypical teratoid/rhabdoid tumours Differential diagnosis of selected tumours of soft tissue, gastrointestinal tract, the pancreas, lung and female genital tract B-cell lymphoma, lung adenocarcinoma and breast carcinoma Follicular lymphomas and various diffuse lymphoproliferative disease	Documented in-house procedures (cont'd) Alpha-Fetoprotein (AFP) Adrenocorticotropin (ACTH) Actin Adipophilin ALK-1 (CD246) Amyloid A Amyloid P ATRX BAF47 (INI1) Catenin BCL-2 (E17) BCL-2 (Oncoprotein)	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Classification of B cell lymphomas Adenocarcinoma Differentiation of malignancies of B cell origin Detection of BRAF V600E mutation Evaluation of glomerular disease in renal tissue Evaluation of glomerular disease in renal tissue Marker for antibody mediated acute renal allograft rejection Clear cell Renal cell carcinoma Detection of CA19-9 positive cells Detection of CA125 Ovarian cancer antigen) Calcitonin producing C cells, medullary thyroid carcinoma Smooth muscle marker Myoepithelial cells, smooth muscle, leiomyosarcoma Mesothelial cells, malignant mesothelioma	Documented in-house procedures (cont'd) BCL-6 Ber-EP4 (Epithelial Antigen) BOB-1 BRAF C1q C3c FITC C4d Carbonic Anhydrase IX CA19-9 CA125 Calcitonin Caldesmon Calponin (Basic) Calretinin	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Dendritic cells, cortical thymocytes, langerhan cells and dermal dendrocytes Characterization of T cell disorders T cell marker in lymphoproliferative disorders Thymocytes and T-helper cells, Anaplastic large cell lymphomas, mycosis fungoides and unspecified peripheral T-cells lymphoma Diagnosis of lymphoma, T cells, subset of B cells in mantle zone Classification of tumours of T-cell origin T-cells, cytotoxic, suppressor Lymphomas Diagnosis of haematological malignancies and identification of macrophage /dendritic cells Reed Sternberg cell, Hodgkin's lymphoma B cell marker, lymphoma Mature B cells, follicular dendritic cells, lymphoma	Documented in-house procedures (cont'd) CD1a CD2 CD3 CD4 CD5 CD7 CD8 CD10 CD11c CD15 CD20 CD21	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u>	Documented in-house procedures (cont'd)	ADDHIS	
	<u>Immunohistochemistry (cont'd)</u>			
	Sub population of B cells, follicular dendritic cells, lymphoma			CD23
	IL-2 receptor expression in association with lymphoid neoplasia, autoimmune diseases and allograft rejection			CD25
	Reed-Sternberg cells and identification of anaplastic large cell lymphoma			CD30
	Endothelial cells			CD31
	Myeloid leukemia, myeloid dysplasia, myeloproliferative diseases			CD33
	Endothelial marker			CD34
	Low grade B cell lymphomas and myeloid disease			CD43
	Leucocyte common antigen, lymphoma			CD45
Neural cell adhesion molecule neuroendocrine cells	CD56			
T-cell large granular lymphocyte disorders, oligodendrogliomas, neuroendocrine tumours, Hodgkins diseaes	CD57			
Megakaryocytes and platelet marker	CD61			



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Macrophages, monocytes, neutrophils, basophils, large lymphocytes Identification of macrophages, M4 myelomonocytic) and M5 monocytic) types of acute myeloid leukaemia and histiocytic sarcoma B cell marker MIC2 gene product Hematopoietic stem cells, melanocytes, mast cells, Cajal cells, germ cells, basal cells of skin and mammary duct epithelia. Identification of c-kit expressing tumours, differentiation between gastrointestinal stromal tumours (GIST) and other intraabdominal mesenchymal tumours Interleukin 3 receptor marker Plasma cell marker, multiple myeloma Intestinal epithelial cells, colorectal carcinoma Colorectal carcinoma and secretory meningiomas Neuroendocrine neoplasia	Documented in-house procedures (cont'd) CD68K CD68P CD79a CD99 CD117 CD123 CD138 CDX2 Carcinoembryonic Antigen (CEA) Chromagranin A	ADDHIS



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<p>HUMAN BODY TISSUE (cont'd)</p>	<p><u>Histopathology (cont'd)</u></p> <p><u>Immunohistochemistry (cont'd)</u></p> <p>Squamous epithelia and basal cells, distinction between undifferentiated squamous cell carcinoma and adenocarcinoma, epithelioid mesothelioma and lung carcinoma and differential diagnosis of atypical proliferations of breast</p> <p>Glandular and transitional epithelial cells, identification of adenocarcinoma of the lung, breast, endometrium, thyroid, ovary, transitional cells (urothelial) carcinoma and chromophobe renal cell carcinoma</p> <p>Glandular and transitional epithelial cells. Identification of adenocarcinoma and squamous cell carcinoma</p> <p>Squamous basal cell epithelia, myoepithelial of breast and parotid gland, mesothelium of umbilical cord and Hassall's corpuscles of thymus</p> <p>Squamous basal cell epithelia of larynx and prostate, myoepithelial cells of salivary gland, sebaceous glands and hair follicles, Squamous cell carcinoma, Hassalls corpuscles and epithelial cells of thymus</p>	<p>Documented in-house procedures (cont'd)</p> <p>CK5/6</p> <p>CK7</p> <p>CK8/18</p> <p>CK14</p> <p>CK17</p>	<p>ADDHIS</p>



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Epithelial tumours and cholangiocellular carcinomas Urothelium, intestinal epithelium and Merkel cells Epithelial cell marker Epithelial cell marker Cytomegalovirus infected cells Cytomegalovirus infected cells- early gene RNA transcript Classification of hematopoietic tumours Classification of CRP distribution in hepatocytes Identification of basement membranes Identification of mantle cell lymphomas Endothelium marker, identification of lymphatic invasion in a variety of cancers Smooth and striated muscle cells and mesothelial cells; identification of rhabdomyosarcomas, leiomyomas and mesotheliomas	Documented in-house procedures (cont'd) CK19 CK20 CK AE1/3 CK MNF CMV CMV ISH c-myc C-Reactive Protein Collagen IV Cyclin D1 D2-40 (podoplanin) Desmin	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Gastrointestinal stromal tumours Epithelial cell membranes, mammary duct epithelia and invasive breast carcinoma Identification of latent EBV infection Epithelial cell marker Semi- quantitative detection of human estrogen receptor fo of human breast carcinoma, management and, prognosis and prediction of outcome of breast cancer, detection of estrogen receptor in □-positive cells Angiogenesis in neoplasms, identification of epitheliod hemangioendothelioma Assessment of blood coagulation factor XIIIa protein, identification of hemagiomias and soft tissue tumours Detection of fibrigen and identification of congenital afibrinogenemia Detection of Galectin-3 Identification and detection of gastrin in normal and neoplastic tissue	Documented in-house procedures (cont'd) DOG-1 E-CAD EBER ISH EMA EP1 Factor VIII Factor XIIIa Fibrogen Galectin-3 Gastrin	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<p>Histopathology (cont'd)</p> <p><u>Immunohistochemistry (cont'd)</u></p> <p>Bladder and breast cancers, determine response to hormone therapy and to refine the prognosis of breast cancer</p> <p>Gross cystic disease fluid protein 15 expression</p> <p>Astrocytes, ependymal cells, immature oligodendrocytes, immature chroid plexus cells</p> <p>GH secreting cells of pituitary</p> <p>Alpha cells of the islets of Langerhans of the pancreas</p> <p>GLUT-1 expression</p> <p>Distinction of focal nodular hyperplasia and inflammatory hepatocellular adenoma</p> <p>Identification of erythroleukaemia, erythroid cells at almost all stages of differentiation</p> <p>HCC, hepatoblastoma, melanoma, testicular germ cell tumours and Wilm's tumour</p> <p>Localisation of granzyme B containing lytic granules and characterisation of activated CTLs and NK cells</p> <p>Mesothelial cells, classification of mesotheliomas</p>	<p>Documented in-house procedures (cont'd)</p> <p>GATA-3</p> <p>GCDFP</p> <p>GFAP</p> <p>Growth hormone</p> <p>Glucagon</p> <p>GLUT-1</p> <p>Glutamine Synthetase</p> <p>Glycophorin A</p> <p>Glypican-3</p> <p>Granzyme B</p> <p>HBME-1</p>	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<p>Histopathology (cont'd)</p> <p><u>Immunohistochemistry (cont'd)</u></p> <p>Demonstration of trophoblastic elements, germ cell tumours</p> <p>Differential diagnosis of hepatocellular tumours, differentiation of clear cell hepatocellular carcinoma from other clear cell malignancies distinction of hepatoblastoma, especially embryonal type from other small round cell tumours</p> <p>Melanocytes, Classification of melanomas and melanocytic lesions;</p> <p>H.Pylori infections in gastritis and gastric cancers</p> <p>Anaplastic astrocytoma from primary glioblastoma or diffuse astrocytoma WHO grade II from pilocytic astrocytoma or ependymoma;</p> <p>Evaluation of glomerular diseases, detection of plasma cells and related lymphoid cells containing IgA; classification of B-cell neoplasia, distinguishing neoplastic monoclonal proliferation from reactive hyperplasia of plasma cells</p>	<p>Documented in-house procedures (cont'd)</p> <p>HCG</p> <p>Hepatocyte</p> <p>HMB45</p> <p>Helicobacter Pylori</p> <p>IDH1</p> <p>IgA</p>	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<p><u>Histopathology (cont'd)</u></p> <p><u>Immunohistochemistry (cont'd)</u></p> <p>Classification of splenic marginal zone lymphoma, mantle cell lymphoma, B-cell lymphocytic lymphoma and rare subsets of multiple myeloma</p> <p>Evaluation of glomerular diseases, detection of plasma cells and related lymphoid cells containing IgG; classification of patients with B-cell neoplasia; distinguishing neoplastic monoclonal proliferation from reactive hyperplasia of plasma cells</p> <p>Evaluation of glomerular diseases; diagnosis of IgG4-related disease</p> <p>Evaluation of glomerular diseases, detection of plasma cells and related lymphoid cells containing IgM; classification of patients with B-cell neoplasia; distinguishing neoplastic monoclonal proliferation from reactive hyperplasia of plasma cells</p> <p>Leydig and sterol cells in testis. Classification of sex-cord-stromal tumours</p> <p>Insulin secreting cells Detection of plasma cells and related lymphoid cells containing kappa light chains;</p>	<p>Documented in-house procedures (cont'd)</p> <p>IgD</p> <p>IgG</p> <p>IgG4</p> <p>IgM</p> <p>Inhibin</p> <p>Insulin Kappa</p>	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Characterization of sporadic aldosterone-producing adenomas Detection of plasma cells and related lymphoid cells containing lambda light chains; Assessment of langerin protein expression, Detection of dendritic cells. Diagnosis of chronic lymphocytic B cell leukaemia/small lymphocytic B cell lymphoma Subtype classification of Hepatocellular adenoma Pituitary tumours Follicular lymphoma, diffuse large B-cell lymphomas Classification of breast cancer Detection of Mast cells Melanocytes; melanomas, adrenocortical carcinomas and angiomyolipomas Mesothelial cell marker, Mesotheliomas Demonstration of the Ki-67 antigen; classification of a variety of tumours	Documented in-house procedures (cont'd) KCNJ5 Lambda Langerin LEF1 LFABP LH LMO2 Mammaglobin MCT Melan-A Mesothelin MIB1	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Diagnosis of melanoma and other melanogenic tumours; diagnosis of perivascular epithelioid cell tumours including angiomylipoma Classification of tumours of the intestinal tract; Identification of Lynch Syndrome Differentiation between adenocarcinoma and reactive mesothelial cells Classification of tumours of the intestinal tract; Identification of Lynch Syndrome Classification of tumours of the intestinal tract; Identification of Lynch Syndrome Mucin secreting epithelial cells, pancreatic carcinoma Mucinous adenocarcinoma of gastrointestinal origin and intestinal metaplasia in Barrett's esophagus; detection of goblet cells Low-grade fibromyxoid sarcoma; pancreatic cancers; detection of mucin secreting epithelial cells	Documented in-house procedures (cont'd) MITF MLH1 MOC31 MSH2 MSH6 Muc-1 Muc-2 Muc-4	ADDHIS



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY TISSUE (cont'd)	<p><u>Histopathology (cont'd)</u></p> <p><u>Immunohistochemistry (cont'd)</u></p> <p>Subset of B cells in the light zone of the germinal centre plasma cells, activated T cells, haematolymphoid neoplasms; subclassification of lymphoid malignancies</p> <p>Detection of myeloperoxidase-positive cells, discrimination between lymphoid and myeloid disorders</p> <p>Diagnosis of rhabdomyosarcoma</p> <p>Diagnosis of rhabdomyosarcomas and Wilm's tumors; detection of cells of skeletal muscle origin</p> <p>Napsin A protei, identification of tumours of lung origin</p> <p>Diagnostic of Neuroblastoma</p> <p>Identification of neurons</p> <p>Neurofilament protein; discrimination between Hirschsprung's disease and allied enteric nervous system malformations</p>	<p>Documented in-house procedures (cont'd)</p> <p>MUM-1</p> <p>Myeloperoxidase</p> <p>MyoD1</p> <p>Myogenin</p> <p>Napsin A</p> <p>Neuroblastoma</p> <p>NeuN</p> <p>NFP</p>	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Neuroendocrine and neuronal cells.; peripheral nerves, neural and neuroendocrine tumours, such as neuroblastomas, retinoblastomas, desmoplastic malignant melanoma and small-cell lung cancer Oct-2 protein expression in B cells and B cell derived lymphomas Germ cell tumour P16 expression in cervical intraepithelial neoplasia and cervical squamous cell carcinoma; Identification of HPV infection p53 expression in a variety of carcinomas Assessment of p63 protein expression; basal cells in the epithelium of prostate; detection myoepithelial cells of the breast and parotid gland Identification of Parvovirus B19 infection in human tissues Identification of malignancies of B cell origin Identification of renal cell carcinoma, thyroid carcinoma and ovarian non-mucinous carcinoma (Metastatic panel)	Documented in-house procedures (cont'd) NSE OCT-02 OCT3/4 P16 P53 P63 Parvovirus PAX5 PAX8	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> T-cell lymphoma Identification of hepatocytes in alpha-1-antitrypsin deficiency Neurons and neuroendocrine cells Seminomas and desmoplastic small round cell tumours; identification of germ cell tumours Intestinal tract tumours, Identification of Lynch Syndrome Pituitary tumours Progesterone receptor, breast, cervical and endometrial carcinomas; management, prognosis and prediction of outcome of breast cancer Glandular epithelium of the prostate Prostate glandular epithelium, prostatic carcinoma Identification of prostate adenocarcinoma Identification of renal cell carcinoma	Documented in-house procedures (cont'd) PD-1 Piz PGP 9.5 PLAP PMS2 Prolactin Progesterone PSA PSAP Racemase (AMACR) RCC	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Classification of S100-positive neoplasms malignant melanomas) Identification of germline mutations of SDH genes diagnosis of Carney-Stratakis and Carney triad gastrointestinal stromal tumors Myoepithelial cell Detection of D-cells of the islets of Langerhans in pancreas; demonstration of sympathetic nerves, mucosal cells, myenteric nerves of the gastrointestinal tract, salivary glands and in some parafollicular cells of the thyroid; Melanoma cells and peripheral nerve sheath tumour cells Mantle cell lymphomas Diagnosis of solitary fibrous tumours distinguishes solitary fibrous tumour from histologic mimics) Follicular lymphoma subgroups Lung epithelial cells; Polyoma virus infected cells	Documented in-house procedures (cont'd) S100 SDHB SMMHC Somatostatin SOX-10 SOX-11 STAT6 Stathmin Surfactant A SV40	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> Neuroendocrine tumours, neurons Diagnosis of leukemias and lymphomas Thyroid epithelial cells, well differentiated thyroid carcinomas Follicular epithelial cells of thyroid, Type II pneumocytes. lung and thyroid tumours TSH secreting cells of pituitary. Pituitary tumours Mesenchymal cells Wilms' tumour protein Wilms' tumour protein <u>HER2 ICC</u>	Documented in-house procedures (cont'd) Synaptophysin TdT Thyroglobulin TTF-1 TSH Vimentin WT-1 WT-Poly	ADDHIS
Sections of paraffin wax embedded breast and GI tract tissue	Her2 positive cells in breast and gastric neoplastic tissue	Documented in-house method incorporating 4B5 antibodies used in accordance with manufacturers operating instructions for the Ventana Benchmark Ultra ADD.HIS 2083 ADD.HIS 32572	ADDHIS
Slides prepared in house as above	<u>Morphological assessment and interpretation/diagnosis</u>	<u>Qualitative Microscopy</u> Leica microscopy with screen ADD.HIS 32357	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology</u> (cont'd)	Documented in-house procedures (cont'd)	
Sections of paraffin wax embedded breast and GI tract tissue	<u>HER2 FISH</u> Her2 positive cells in breast and gastric neoplastic tissue	Documented in house methods incorporating thermo-Brite and Abbott molecular Path vision DNA Probe kit II ADD.HIS 6027	ADDHIS
Slides prepared in house as above	Reading and interpretation of slides	<u>Qualitative Microscopy</u> Various microscopes including Leitz, Olympus and Nikon Voice recognition software using Dragon Medical 11.0 ADD.HIS 32375	ADDHIS
Fresh Skin and tonsil biopsies		<u>Specimen receipt</u> VWR Rocking platform ADD.HIS 32567	ADDHIS
Frozen Skin and tonsil biopsies	Handling and preparation of frozen tissue for immunofluorescence	<u>Cryotomy</u> <u>Preparation and dissection for immunofluorescence</u> Cryostat Leica CM1950 ADD.HIS 32567	ADDHIS
Frozen sections	<u>Immunohistochemistry to detect the following:</u>	Documented in-house methods incorporating the following FITC labelled antibodies used in accordance with manufacturers operating instructions for the Ventana Benchmark Ultra ADD.HIS 32567 ADD.HIS 32572	ADDHIS
	Gamma Chains	IgG fluorescein isothiocyanate	
	Alpha Chains	IgA fluorescein isothiocyanate	
	M chains	IgM fluorescein isothiocyanate	
	C3c fragment of complement,	C3 fluorescein isothiocyanate	



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u>	Documented in-house procedures (cont'd)	
Slides prepared in house as above	<u>Morphological assessment and interpretation/diagnosis</u>	<u>Qualitative Microscopy</u> Fluorescent Microscopy Olympus BX61 for viewing immunofluorescence under UV light ADD.HIS 31855	ADDHIS
Fresh, Fixed tissue	<u>Neuropathological examination activities for the purposes of clinical diagnosis of neuropathological diseases of the brain and nerve</u>	Documented in-house procedures as indicated.	ADDHIS
Formalin fixed tissue		<u>Specimen Dissection</u> Steeline Bespoke down flow table Labcaire C1 special microbiology cabinet for fresh tissue Dissection microscope GX stereo Raymond Lamb Oven ADD.HIS 32477 ADD.HIS 31876 ADD.HIS 31923	ADDHIS
Formalin fixed tissue		<u>Processing</u> Tissue Tek VIP processor ADD.HIS 2152 ADD.HIS 401	ADDHIS
Formalin fixed tissue		<u>Embedding</u> Leica EG1160 Embedding centre Leica EG1150 Embedding centre ThermoFisher Scientific Paratrimmer Heated Forceps ADD.HIS 401	ADDHIS



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HUMAN BODY TISSUE (cont'd) Formalin fixed wax embedded tissue samples	<u>Histopathology</u> (cont'd)	Documented in-house procedures (cont'd) <u>Microtomy</u> Leica RM2235 Rotary microtome Leica RM2135 CJD) Rotary microtome Floatation baths ADD.HIS 401	ADDHIS
Frozen tissue	Handling and preparation of brain and nerve tissue for frozen section	<u>Cryotomy</u> Preparation and dissection of brain and nerve tissue Leica CM3050SUV Cryostat ADD.HIS.31914 ADD.HIS.31819 ADD.HIS 31876	ADDHIS
Paraffin wax sections	<u>Routine Staining</u> <u>For the demonstration of basophilic and eosinophilic structures</u>	<u>Haematoxylin and Eosin Staining</u> Automated Leica XL autostainer Leica CV5030 Coverslipper Corsair TBS slide drying oven ADD.HIS.5711	ADDHIS
Brain smears	<u>Special stains for brain and nerve to detect the following:</u>	Documented methods using stains as indicated Preparation of Neuropath smear ADD.HIS 31736	ADDHIS
Brain smears	General Metachromatic stain for cellular features	Toluidine Blue ADD.HIS 31736	
Fresh, Fixed and Frozen tissue sections	Amyloid	Highman's Congo Red ADD.HIS 32235	
	Myelin	Luxol Fast Blue with Cresyl Fast Violet ADD.HIS 31916	



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology</u> (cont'd)	Documented in-house procedures (cont'd)	ADDHIS
Araldite resin nerve sections	<u>Special stains</u> (cont'd) Nuclei and cytoplasm	Methylene Blue Azure II Basic Fuchsin ADD.HIS 31917	
Osmium tetroxide fixed	Regenerating fibres	Teased nerve ADD.HIS 31923	ADDHIS
Paraffin wax sections	<u>Immunohistochemistry for brain to detect the following:</u> Amyloid Amyloid Glial fibrillary CJD (prion protein) Plaques and tangles Plaques and tangles Ubiquitinated inclusions	Documented in-house manual procedures using antibodies as indicated. ADD.HIS 31915 BA4 BAPP GFAP KG9 TAU (AT8) TAU (11/57) Ubiquitin	
Fresh muscle tissue	<u>Histopathological examination activities for the purposes of clinical diagnosis of muscle diseases:</u> Handling and preparation of muscle tissue for frozen section	Documented in-house procedures using stains as indicated. <u>Specimen Dissection and Preparation</u> Cryostat Leica CM2050 ADD.HIS 31918	ADDHIS
Frozen sections	<u>Special stains for the detection of:</u> Metabolic disorders	Documented methods using stains as indicated: Phosphofructokinase ADD.HIS 31927	ADDHIS



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u>	Documented in-house procedures (cont'd)	ADDHIS	
	<u>Special stains (cont'd)</u>			
	Lysosomes in muscle			Acid phosphatase ADD.HIS 31904
	Mitochondrial complexes			Cytochrome oxidase ADD.HIS 31908
	Mitochondrial complexes, Muscle structure			Gomori's Trichrome ADD.HIS 31911
	Nuclei and other cell components			Haematoxylin and Eosin ADD.HIS 31912
	Fibre typing			Myoadenylate ADD.HIS 31919
	Type 1 fibres			NADH Diaphorase ADD.HIS 31922
	Lipids			Oil red O ADD.HIS 31924
	Glycogen			Periodic acid Schiff ADD.HIS 31926
	Phosphofructokinase activity			Phosphofructokinase ADD.HIS 31927
McAndles	Phosphorylase ADD.HIS 31928			
SDH activity	Succinic Dehydrogenase ADD.HIS 31930			
Frozen sections	<u>Immunohistochemistry for muscle to detect the following:</u>	Documented in-house manual procedures using antibodies as indicated. ADD.HIS 31915	ADDHIS	
	Macrophages T cells T-helper cells			ACP CD3 CD4



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HUMAN BODY TISSUE (cont'd)	<u>Histopathology (cont'd)</u> <u>Immunohistochemistry (cont'd)</u> T cells, cytotoxic and suppressor Macrophages Platelets, megakaryocytes, monocytes, macrophages, endothelial cells Desmin in striated and smooth muscle Muscle membranes Muscle membranes Muscle membranes Muscle membranes Muscle membranes HLA class 1 complex HLA class 2 complex Muscle membranes Muscle fibre type Muscle fibre type Muscle membranes Muscle membranes Muscle membranes Mesenchymal cells <u>Diagnostic Electron Microscopy</u>	Documented in-house procedures (cont'd) CD8 CD68P CD79a Desmin Dysferlin Dystrophin 1 Dystrophin 2 Dystrophin 3 Emerin HLAABC HLADR Merosin Myosin slow Myosin fast Alpha Sarcoglycan Beta Sarcoglycan Delta Sarcoglycan Vimentin	ADDHIS
	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	Documented in-house manual procedures using stains as indicated.	ADDHIS



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HUMAN BODY TISSUE (cont'd) Renal and nerve biopsies	<u>Histopathology (cont'd)</u>	Documented in-house procedures (cont'd) <u>Tissue Processing</u> Astec monair plus fume cabinet Sartorius balance pH meter TAAB oven ADD.HIS 5605 ADD.HIS 31677	ADDHIS
Formalin and glutaraldehyde fixed tissue samples		<u>Microtomy</u> Leica EMUC7 Ultra microtome Taab (MKII) glass knife maker Hot plate ADD.HIS 2855	ADDHIS
Formalin and glutaraldehyde fixed tissue samples		<u>Special Stain for EM</u> MSE Centrifuge ADD.HIS 31684 Methylene Blue ADD.HIS 31684	ADDHIS
Semi-thins	Organelles	Uranyl Acetate ADD.HIS 31684	
Ultra-thins	Organelles	Lead Citrate ADD.HIS 31684	
	<u>Morphological assessment and interpretation</u>		
Formalin and Glutareldehyde Fixed Resin Embedded Tissue samples prepared as above	Demonstration of ultrastructural components of renal, muscle, nerve and other tissues. Production of micrographs suitable for diagnostic use	<u>Electron microscopy</u> Taking Diagnostic EM photographs, using documented in-house procedures in conjunction with manufacturer's instructions using Hitachi H7650 ADD.HIS 3168	ADDHIS



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HUMAN BODY FLUIDS	<u>Cytopathology Non-Gynae) examination activities for the purposes of clinical diagnosis</u>		ADDHIS
Body fluid Including: Serous effusions Cyst fluids Urine including urinary tract washings) Joint fluid Fine needle aspiration, EUS or EBUS Bronchial specimens including sputum, washings, brushings and lavages) CSF Eye fluid GI tract brushings	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	In House documented methods for staining and examination, all supported by SOPs and where relevant, manufacturer's instructions for centrifuge and cytospin, and staining and coverslip.	ADDHIS
		<u>Specimen preparation</u> Sigma 316-P centrifuge Shandon cytospin 3 ADD.HIS 32252 ADD.HIS 32269 ADD.HIS 31984 ADD.HIS 31963 ADD.HIS 31968	ADDHIS
	Routine Staining For the demonstration of basophilic, eosinophilic and cynophilic structures for the differentiation of cell types and cytological abnormalities	<u>Staining of cell preparations</u> Pap and Diff Quick Gemini autostainer Leica CV5030 Coverslipper ADD.HIS 31977 ADD.HIS.31985	ADDHIS
Slides prepared in house as above	<u>Morphological assessment and interpretation/diagnosis</u>	<u>Qualitative microscopy</u> Various microscopes including Nikon, Olympus, Leica ADD.HIS 31981 ADD.HIS 32261 ADD.HIS 206	ADDHIS



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HUMAN BODY FLUIDS (cont'd)	<u>Cytopathology</u> (cont'd)	Documented in-house procedures (cont'd)	
Joint fluids synovial fluids)	Assessment of birefringent crystals of monosodium urate and calcium pyrophosphate crystals	<u>Microscopic examination:</u> Olympus BX45 microscope with polarising filters ADD.HIS 31981	ADDHIS
	<u>Special Staining to identify or exclude morphological and cytological abnormalities:</u>	Documented in-house procedures using stains as indicated:	ADDHIS
	Pneumocysti Carnii, fungi	Grocott ADD.HID 31713	
	Lipids	Oil red O ADD.HIS 31724	
	Iron	Perls ADD.HIS 31758	
Slides prepared in house as above for Non-gynae samples list above	<u>Morphological assessment and interpretation/diagnosis</u>	<u>Qualitative Microscopy</u> ADD.HIS 1825 ADD.HIS 5017	ADDHIS
	<u>Histopathological examination activities for the purposes of clinical diagnosis of MOHS'</u>	In House documented methods for staining and examination, all supported by SOPs and where relevant, manufacturer's instructions for sectioning and staining of frozen sections and pathologist reporting	MOHS
Frozen skin tissue	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	<u>Cryotomy/frozen sections</u> Bright Clinicut cryostat ADD.HIS 5702	MOHS
	Routine Staining For the demonstration of basophilic and eosinophilic structures	<u>Routine Haematoxylin and Eosin staining</u> Linstainer ADD.HIS 5702	MOHS



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HUMAN BODY FLUIDS (cont'd)	<u>Cytopathology (cont'd)</u>	Documented in-house procedures (cont'd)	
Slides prepared in house as above	<u>Morphological assessment and interpretation/diagnosis</u>	<u>Qualitative Microscopy</u> Olympus Microscope ADD.HIS 5702	ADDHIS
Liquid Based Cervical Cell Samples	<u>Cytopathology (Gynae) examination activities for the purposes of clinical diagnosis</u>		
	Examination of cellular material in order to identify or exclude morphological and cytological abnormalities	Documented in house methods in conjunction with manufacturer's instructions for the operation of the T5000 and T2000	NMKT
		Cervical cytology preparation using T5000 T2000 Fir lab centrifuge ADD.HIS 655 ADD.HIS 32075 ADD.HIS 32058	NMKT
	Routine Staining For the demonstration of basophilic, eosinophilic and cynophilic structures for the differentiation of cell types and cytological abnormalities	<u>Papanicolaou Staining</u> Leica XL autostainer Leica CV5030 coverslipper ADD.HIS 5548 ADD.HIS 32097 ADD.HIS1035 ADD.HIS 32073	NMKT
Prepared stained slides for cervical screening	<u>Morphological assessment and interpretation/diagnosis</u>	<u>Microscopes</u> Various – Olympus, Nikon and Leica ADD.HIS 32029 ADD.HIS 32023	NMKT COLCH



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HUMAN BODY FLUIDS (cont'd) Liquid Based Cervical Cell Samples	<u>Cytopathology</u> (cont'd) High-Risk Human Papilloma virus (HR-HPV) testing	Documented in-house procedures (cont'd) Documented in house methods in conjunction with manufacturer's instructions for the operation of the Hologic Panther ADD.HIS 3536 ADD.HIS 3382 ADD.HIS 2016 ADD.HIS 18892	NMKT
END			