


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>9881</b>  <b>Accredited to ISO 15189:2012</b>	<b>University Hospitals Plymouth NHS Trust</b>  <b>Issue No: 007 Issue date: 17 February 2025</b>	
	<b>Cellular and Anatomical Pathology</b> <b>University Hospitals Plymouth NHS Trust</b> <b>Derriford Hospital</b> <b>Plymouth</b> <b>PL6 8DH</b>	<b>Contact: Lee Tuddenham</b> <b>Tel: +44 (0)1752 430097</b> <b>E-Mail: lee.tuddenham1@nhs.net</b> <b>Website: www.plymouthhospitals.nhs.uk</b>

**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
Cellular and Anatomical Pathology Derriford Hospital Plymouth PL6 8DH	Lee Tuddenham Tel: +44 (0) 1752430097 E-Mail: lee.tuddenham1@nhs.net	Histopathology Neuropathology Non-gynae Cytology Electron Microscopy

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

Location details	Activity	Location code
University Hospitals Plymouth NHS Trust Derriford Hospital Plymouth PL6 8DH	Lee Tuddenham Tel: +44 (0) 1752430097 E-Mail: lee.tuddenham1@nhs.net	Mortuary Services (body receipt, storage and release)
Room 172/27 Level 7 ENT Ultrasound Clinic University Hospitals Plymouth NHS Trust Derriford Hospital Plymouth PL6 8DH	Lee Tuddenham Tel: +44 (0) 1752430097 E-Mail: lee.tuddenham1@nhs.net	Preparation of FNA, staining and sample adequacy check



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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><b>HUMAN BODY TISSUES AND FLUIDS</b></p> <p>Body fluids/Fine needle aspirations, urines and bronchial/sputum samples</p>	<p><u>Diagnostic Non-Gynae Cytopathology</u></p> <p>Examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>Preparation/ centrifugation using documented in-house methods incorporating manufacturers' instructions: Using Thermo Shandon Cytospin 4 Megafuge 8 Centrifuge Sakura VIP 5 Tissue Processor Leica RM2135, RM2235 Microtomes Microm HM200 Microtomes and H1481 Preparation of Diagnostic Cytopathology samples Non-LBC</p> <p>H1205 Preparation of preformed clots and body fluid specimens including EBUS for special procedures/stains</p> <p>H1402 ThermoShandon Cytospin 4 H6925 Use of the Megafuge 8 Centrifuge H2236 Cell block processing Sakura VIP5 Cell block microtomy - Leica RM2135, RM2235, Microm HM200, H1221 Suspected TSE CSF preparation</p>	A
<p>Urine Bronchial washings, brushings and lavage All GI tract brushings in fluid Needle washings where Pap is required</p>	<p>Examination to identify or exclude cytological abnormalities for the purpose of diagnosis</p>	<p>Liquid-based cytology (LBC) preparation according to Hologic instructions for processing on Hologic Genesis and centrifugation using in-house procedures;</p> <p>H1480 Preparation of Diagnostic Cytopathology samples- LBC</p> <p>H6925 Use of the Megafuge 8 Centrifuge</p>	A



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Diagnostic Non-Gynae Cytopathology</u> (cont'd)		
Fine needle aspiration (FNA)	Cellularity assessment (sample adequacy confirmation) followed by subsequent processing and analysis in the Cytopathology Laboratory (A)	H6927 Attendance at FNA and Quick MGG Stain v2	FNA Clinic B
Prepared cytological slides (including externally prepared). Includes air-dried and alcohol fixed preparations	Visualisation of nuclear detail and other cellular constituents	<b>Manual staining</b> using in-house procedures for (as appropriate):  H1306 Papanicolaou H1301 Routine Giemsa	A
Fine needle aspirations from ENT/Ultrasound clinics	Preparation and examination to identify or exclude morphological & cytological abnormalities for the purpose of diagnosis	Manual slide preparation and Hema Gurr rapid Giemsa staining using procedures H1209 and H1210	A
Slides prepared in house as above and pre-prepared slides of aspirated cells and body fluids	Morphological assessment and interpretation/diagnosis	<b>Macroscopic and Microscopic examination</b> using documented in-house methods incorporating manufacturers' instructions:  H2185 Medical reporting of Non-Gynae Cytology H2101 Pathologist working patterns including obtaining work, prioritisation of specimens and generating all types of reports and authorisation	A
Various human diagnostic tissues both surgical (including neuropathological and haematological surgical specimens) and post-mortem tissues	<u>Histopathology</u>  Preparation and examination to identify or exclude morphological & cytological abnormalities	In conjunction with manufacturer's instructions  <b>Macroscopic and Microscopic examination</b> using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd)		
Formalin fixed tissues and Cassettes containing human tissue	Tissue specimen microanalysis, dissection and sampling	<b>Macroanalysis and dissection Manual method using:</b>  H2004 Dissection – Opening Specimens H2042 Cut Up: Specimen Dissection and Biopsy Transfer H2043 Dissection General Instructions HHF130 Print Mate Cassette Writer Quick Guide  <b>Decalcification:</b> Manual technique H2015 Specimens requiring decalcification	A
Various human diagnostic tissues both surgical (including neuropathological and haematological surgical specimens) and post-mortem tissues	Preparation and examination to identify or exclude morphological & cytological abnormalities	<b>Macroscopic and Microscopic examination</b> using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
Fresh and frozen tissue	Intra-operative diagnosis: Tinctorial staining of tissue sections	<b>Tissue specimen dissection:</b> H2042-Cut Up: Specimen Dissection and Biopsy Transfer, H2043-Dissection General Instructions	A
	Basophilic and eosinophilic tissue structures	<b>Rapid frozen section:</b> Cryotomy and manual Haematoxylin & Eosin (H&E) staining method using using: Cryotome FSE, Leica CM1950 H2312 Frozen Sections H2611 Special stains - Hand stained Haematoxylin and Eosin	A



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd)		
Fresh and frozen tissue (cont'd)	Basophilic and eosinophilic tissue structures (cont'd)	<b>Reporting:</b> H2101 Pathologist working patterns including obtaining work, prioritisation of specimens and generating all types of reports and authorisation	A
Brain smears		<b>Manual methods using procedures</b> H6223, H6222 (preparation), H6211(staining) H2611 Special stains - Hand stained H&E H6628 Neuro Hand stained H&E	A
	<u>Neuropathology</u>		
Zamboni's fixed tissue: Free-floating frozen sections	Intra epidermal nerve fibre density studies	Bright Cryostage/Sledge Microtome H6160 - Skin biopsy for peripheral neuropathy	A
Various human diagnostic tissues both surgical (including neuropathological and haematological surgical specimens) and post mortem tissues	Preparation and examination to identify or exclude morphological & cytological abnormalities	<b>Macroscopic and Microscopic examination</b> using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
	<u>Histopathology</u>		
Formalin fixed paraffin embedded (FFPE) routine histopathology and neuropathology tissue	Processing of tissues	<b>Tissue Processing:</b> H2236 Sakura VIP5 H2240 Leica ASP300S H6292 Use of the Leica ASP300S Processor H2238 Shandon Excelsior H6260 VIP 5 Neuropathology processor operation	A



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<p><b>HUMAN BODY TISSUES AND FLUIDS (cont'd)</b></p> <p>Formalin fixed paraffin embedded (FFPE) routine histopathology and neuropathology tissue (cont'd)</p> <p>Formalin fixed, paraffin embedded (FFPE) tissue and frozen tissue</p> <p>Various human diagnostic tissues (including Neuropathology surgical cases) subjected to technical processes that yield final slide(s) preparations that are suitable for diagnostic interpretation</p>	<u>Histopathology</u> (cont'd)		
	Embedding processed tissues	<b>Embedding</b> using Sakura Tissue Tek embedding centres H2301 Embedding standard cassettes H2302 Multiwell Cassettes for Endoscopic Biopsies H6206 Special orientation at embedding - Neuropathology	A
	Sectioning and slide production	<b>Microtomy:</b> Leica RM2135, RM2235, Microm HM200, H6244 Cutting levels, serials and deepers - Neuropathology	A
	Basophilic and eosinophilic tissue structures	<b>Routine Histology Haematoxylin and Eosin staining &amp; coverslipping:</b> H2325 Use of Sakura Prisma Stainer (automated H&E) H2611 Special Stains- Hand stained H&E H6628 Manual H&E Staining	A
		<u>Immunocytochemistry</u>	
	Microscopic examination of slides prepared in house from samples listed above and stained using special tinctorial or immunocytochemical techniques by Pathologist to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<b>Microscopy qualitative analysis</b> using procedures: H2101, or as specified in medical examination procedures H2111-H2182 and microscopes referenced above	A
	Histopathology, neuropathology immunocytochemistry examination to identify or exclude morphological & cytological abnormalities	<b>Macroscopic and Microscopic examination</b> using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd)	<u>Immunocytochemistry</u>	
FFPE tissue	Preparation and examination to identify or exclude morphological & cytological abnormalities	<b>Macroscopic and Microscopic examination</b> using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	Detection of the following:	Automated methods using: H4029, H4030, H4031, H4216, H4037, H4038, H4039, H6318 Use of the Dako Omnis autostainer and the following antibodies:	A
	Pituitary hormone	ACTH	
	Epithelium	AE1/3 (multi CK)	
	Alpha fetal protein	AFP	
	Anaplastic lymphoma kinase	ALK1	
	Alpha 1 anti-trypsin	Alpha 1AT	
	AMACR	AMACR (upregulation in PCa)	
	Amyloid A	Amyloid A	
	Androgen receptor	Androgen receptor	
	ATRX	ATRX	
	Lymphoma panel: B Cells	Bcl-2	
	Follicular centre B cells	Bcl-6	
	Epithelial cell	BerEP4 (RTU)	
	Senile plaques (Alzheimer's)	Beta Amyloid (A4)	
	Cell adhesion marker (adhesion junctions)	Beta catenin	
	Renal transplant vascular marker	C4d	



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd)  Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	<u>Immunocytochemistry</u>  <b>Macroscopic and Microscopic examination</b> using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
FFPE tissue (cont'd)	Detection of the following: (cont'd)	Automated methods using: H4029, H4030, H4031, H4216, H4037, H4038, H4039, H6318 Use of the Dako Omnis autostainer and the following antibodies:	
	CA125	CA125	
	C cell thyroid	Calcitonin	
	Smooth muscle cells	Caldesmon	
	Mesothelial cells	Calretinin	
	Epithelial cells	Cam 5.2	
	Langerhans cells	CD1a	
	T cells	CD2	
	T cells	CD3	
	T cells	CD4	
	T cell (and some B cells)	CD5	
	T cells	CD7	
	T cells	CD8	
	Germinal centre B cells, myoepithelial cells, perineurium	CD10	
	Reed Sternberg cells, leucocytes/granulocytes	CD15	
	B cells	CD20	





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	B cell, follicular dendritic receptor	CD21	
	T cells	CD23	
	Reed Sternberg cells	CD30	
	Endothelial cells	CD31	
	Endothelial cells	CD34	
	Activated B & T Cells, plasma cells, monocytes	CD38	
	T cells	CD43	
	Leucocyte common antigen	CD45 (LCA)	
	Nerves and NK cells	CD56	
	T Cells (CD8/ NK cells)	CD57	
	Monocyte/macrophage	CD68	
	B Cell	CD79a	
	Ewing's sarcoma tumour cells, thymocytes	CD99 (Mic II)	
	Gastrointestinal stromal tumours (GIST), mast cells, Cajal cells	CD117 (C-Kit)	



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FFPE tissue (cont'd)	Detection of the following:	Automated methods using: H4029, H4030, H4031, H4216, H4037, H4038, H4039, H6318 Use of the Dako Omnis autostainer and the following antibodies:	
	B Cells	CD138	
	Colonic transcription factor	CDX2	
	Carcino embryonic antigen Mono – glandular epithelium	CEA (monoclonal)	
	Neuroendocrine cells and enterochromaffin cells	Chromogranin A	
	Epithelial cells (high mol wt)	CK 34βE12	
	Epithelial cells	CK5	
	Epithelial cells, epithelium	CK7	
	Epithelial cells	CK14	
	Epithelial cells	CK 19	
	Epithelial cells GI epithelium, urothelium, Merkel cells	CK20	
	Cytomegalovirus	CMV	
	Mantle cell lymphoma	Cyclin D1	
	Endothelial cells	D240	
	Striated, smooth, skeletal muscle	Desmin	



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	GIST	DOG-1	
	Epithelial cell adhesion	E Cadherin	
	Epithelial cells	EMA	
	Oestrogen receptor	ER (ORA)	
	Endothelial cells	Factor 8 (VWF)	
	Fli-1 transcription factor (Ewing's sarcoma/ neuroendocrine)	Fli 1	
	Pituitary hormone	FSH	
	Cells of astrocytic origin	GFAP	
	Pituitary hormone	Growth Hormone (GH)	
	Red blood cells and precursors	Glycophorin A	
	Cytotoxic T cells and NK cells	Granzyme B	
	Human Chorionic Gonadotrophin hormone	HCG	
	Hepatocytes	Hepar 1	



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FFPE tissue (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	Detection of the following:	Automated methods using: H4029, H4030, H4031, H4216, H4037, H4038, H4039, H6318 Use of the Dako Omnis autostainer and the following antibodies:	A
	Reactive or proliferating melanocytes	HMB45	
	Cells of astrocytic origin	GFAP	
	Herpes simplex virus	HSV Type I	
	IgA heavy chain, undifferentiated B cells	IgA	
	IgD heavy chain undifferentiated B cells	IgD	
	IgG gamma chain undifferentiated B cells	IgG	
	IgG gamma chain plasma cells	IgG plasma	
	IgM heavy chain undifferentiated B cells	IgM	
	$\alpha$ -inhibin (germ cells)	Inhibin	
	Kappa light chain	Kappa	
	Plasma cells	Kappa	
	Lambda light chain	Lambda	
	Plasma cells	Lambda	



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FFPE tissue (cont'd)	Detection of the following:	Automated methods using: H4029, H4030, H4031, H4216, H4037, H4038, H4039, H6318 Use of the Dako Omnis autostainer and the following antibodies:	
	Pituitary hormone	Luteinizing Hormone	
	Macrophage, histiocytes, myeloid differentiation	Lysozyme	
	Melanocytes	Melan A	
	MIB1 (proliferation marker)	MIB1 (Ki 67)	
	Microsatellite Instability Protein (MSI)/ Mis Match Repair (MMR)	MLH1	
	Epithelial cells (broad spectrum mol wt)	MNF116	
	Epithelial cells	MOC 31	
	MSI/ MMR	MSH2	
	MSI/ MMR	MSH6	
	Mucin 4 colonic cells	MUC 4	
	B Cells, plasma cells, activated T cells	MUM-1	
	Myeloid cells	Myeloperoxidase (MPO)	
	Skeletal muscle cells	Myogenin	



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FFPE tissue (cont'd)	Detection of the following:	Automated methods using: H4029, H4030, H4031, H4216, H4037, H4038, H4039, H6318 Use of the Dako Omnis autostainer and the following antibodies:	
	Neuronal cells throughout CNS	Neu-N	
	Neurofilament protein (neuronal axon of nervous system)	Neurofilament protein	
	Neurone specific enolase (neurons and neuroendocrine cells)	NSE	
	OCT 3/4 (seminoma)	OCT 3/4	
	P53 (oncogene)	P53	
	P63	P63	
	B Cells	Pax 5	
	Pax 8 (transcription factor)	Pax 8	
	PD-L1	PD-L1	
	Placental alkaline phosphatase (seminoma)	PLAP	
	Microsatellite Instability Protein (MSI)/ Mis Match Repair (MMR)	PMS2	
	Progesterone receptor	PR (PGR)	



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd)  Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	<u>Immunocytochemistry</u>  Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	A
FFPE tissue (cont'd)	Detection of the following:	Automated methods using: H4029, H4030, H4031, H4216, H4037, H4038, H4039, H6318 Use of the Dako Omnis autostainer and the following antibodies:	
	Prostate specific antigen	PSA	
	Renal cell carcinoma	Renal Cell CC	
	Nerve, myoepithelial cells, fat	S100	
	Smooth muscle actin	SMA	
	Anti-somatostatin Receptor 2	SSTR2	
	Solitary fibrous tumours	STAT6	
	Nerve plexuses, synaptic fibres, nerve junctions	Synaptophysin	
	Primitive T and B cells	TDT	
	Thyroglobulin	Thyroglobulin	
	Pituitary hormone	Thyroid Stimulating Hormone (TSH)	
	Cytolytic T cells	TIA-1	
	Thyroid transcription factor	TTF-1	
	Vimentin filaments	Vimentin	
	Wilm's tumour	Wilm's WT1 (RTU)	



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FFPE tissue (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	Detection of the following:	Automated methods using: H4216, H4045, H4046, H4047 Routine Use of the Roche Ventana Benchmark Ultra	A
	B Cell and Reed Sternberg cells	BOB-1	
	CD163	CD163	
	C-Myc- proliferation marker	C-Myc	
	Glutamine Synthetase- liver panel	Glutamine Synthetase	
	Glypican 3	Glypican 3	
	Herpes virus - 8	HHV8	
	IgG4	IgG4	
	Brain tumour marker (neuro panel)	IDH-1	
	INI-1 (transcriptional regulation)	INI-1	
	MUC-1	MUC-1	
	B Cells	Oct-2 Ag	
	P16 (dysplastic epithelia)	P16	
	P40	P40	
	Prostatic alkaline phosphatase	PAP	





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

**University Hospitals Plymouth NHS Trust**

**Issue No: 007 Issue date: 17 February 2025**

**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 TISSUES AND FLUIDS (cont'd)	<u>Histopathology/ Neuropathology</u> (cont'd)	<u>Immunocytochemistry</u>	
FFPE tissue (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	Detection of the following:	Automated methods using: H4216, H4045, H4046, H4047 Routine Use of the Roche Ventana Benchmark Ultra	A
	PD1	PD1	
	Pituitary hormone	Prolactin	
	Simian aids virus (renal panel)	SV40	
FFPE routine histopathology and neuropathology tissue	Histopathology, Neuropathology in-situ hybridisation	<u>In-situ hybridisation</u>	A
	Detection of the following:	In-situ hybridisation Automated platform using procedures: Automated methods using: H4029, H4030, H4031, H4216, H6318 Use of the Dako Omnis autostainer and the following antibodies:	
	Epstein Barr virus	EBER	
	FISH on tissue sections - 1p19q loss of heterozygosity	H6317 FISH 1p19q dual colour probe	



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Neuropathology</u>	<u>Immunocytochemistry (cont'd)</u>	A
FFPE routine histopathology and neuropathology tissue (unless otherwise stated)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	Detection of the following:	Manual methods using procedures H6311, H6314, H6318, H6325, H6326, H6327, H6328, H4008, H6332, H6910 and ABC universal kits (Vector), Novolink (Lieca), substrate DAB or substitute peroxidase marker and the following antibodies:	
	Axonal swelling	Alzheimer Precursor Protein (APP)	
	Beta Amyloid/Senile plaques	Beta amyloid (A4/Ab)	
Frozen tissue only	C5b-9 (MAC)	Complement	
FFPE and frozen tissue	T cells	CD3	
FFPE and frozen tissue	B cells	CD20	
FFPE and frozen tissue	Monocyte/macrophage	CD68	
	B Cells	CD79a	
Frozen tissue only	Striated, smooth, skeletal muscle	Desmin	
Frozen tissue only	Skeletal muscle – Dysferlin	Dysferlin	
Frozen tissue only	Dystrophin (Rod domain)	Dystrophin I	
Frozen tissue only	Dystrophin (C-terminus)	Dystrophin II	
Frozen tissue only	Dystrophin (N-terminus)	Dystrophin III	
	Cells of astrocytic origin	GFAP	



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Neuropathology</u> (cont'd)	<u>Immunocytochemistry</u>	A
	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
FFPE routine histopathology and neuropathology tissue (cont'd)	Detection of the following: (cont'd)	Manual methods using procedures H6311, H6314, H6318, H6325, H6326, H6327, H6328, H4008, H6332, H6910 and ABC universal kits (Vector), Novolink (Lieca), substrate DAB or substitute peroxidase marker and the following antibodies:	
	Major Histocompatibility complex class I	HLA-1	
	Major Histocompatibility complex class II	HLA-DR (II)	
	Cells of astrocytic origin	MIB-1	
Frozen tissue only	Neuron (axons)	Neuro filament protein NFP	
Frozen tissue only	Muscle – Spectrin	Spectrin	
	Tau protein	Tau	
	Vimentin filaments	Vimentin	



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Neuropathology</u> (cont'd)	<u>Immunocytochemistry</u>	A
FFPE routine histopathology and neuropathology tissue (cont'd)	Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)	
	Detection of the following: (cont'd)	Manual methods using procedures H6311, H6314, H6318, H6325, H6326, H6327, H6328, H4008, H6332, H6910 and ABC universal kits (Vector), Novolink (Lieca), substrate DAB or substitute peroxidase marker and the following antibodies:	
Cerebral Spinal Fluids (CSF) Cytological investigation	T cells	CD3	
	B cells	CD20	
	Monocyte/macrophage	CD68	
	B Cells	CD138	
	Epithelial cells	Cam 5.2	
	Cells of astrocytic origin	GFAP	
	MIB-1 (proliferation marker)	MIB-1 (Ki 67)	



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<p><b>HUMAN BODY TISSUES AND FLUIDS (cont'd)</b></p> <p>Frozen tissue sections of skin and renal</p>	<p><u>Histopathology</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities (cont'd)</p> <p>Routine H&amp;E staining: Manual methods using procedures H2611</p> <p>Detection of the following:</p> <p>Complement factor (fluorescent)</p> <p>Immunoglobulin (fluorescent)</p> <p>Light chain (fluorescent)</p> <p>Cells of astrocytic origin</p> <p>Cells of astrocytic origin</p> <p>Nerves and neuroendocrine differentiation (Zamboni fixed tissue using free floating sections)</p>	<p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p><u>Immunofluorescence (IMF)</u></p> <p>Cryotomy: Using procedures H2312, H4016 and Thermo Shandon Cryotome FSE</p> <p>Routine H&amp;E staining: Manual methods using procedures H2611</p> <p>Manual methods using procedures: H4016, H4028, H6160, and antibodies as appropriate:</p> <p>C1Q FITC</p> <p>C3 FITC</p> <p>IgA FITC IgG FITC IgM FITC</p> <p>Kappa FITC Lambda FITC</p> <p>GFAP</p> <p>MIB-1</p> <p>PGP 9.5</p>	A



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<p><b>HUMAN BODY TISSUES AND FLUIDS (cont'd)</b></p> <p>Frozen sections and formalin fixed paraffin embedded routine histopathology and neuropathology tissue samples including neurones, myelin, astrocytes, axons, tangles, plaques, amyloid, infections, primary and secondary tumours, pituitary, muscle, nerve and ocular tissue</p>	<p><u>Histopathology/</u> <u>Neuropathology</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities (cont'd)</p>	<p><u>Special Staining</u></p> <p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with H2627 and manufacturer's instructions for the following methods (where relevant)</p>	A
	Detection of the following:	Automated methods using: H2634 Use of the Dako Automated Artisan Link Pro and the following special stains	
	Acidic & neutral mucins	ABPAS	
	Diastase resistant acidic and neutral mucins	ABPAS+D	
	Acid alcohol fast bacilli	AFB	
	Fungi	Grocott Methenamine Silver (GMS)	
	Haemosiderin, ferric iron, asbestos (ferruginous bodies Haemopoietic)	Iron	
	Basement membranes (basal laminae)	Jones' Methenamine silver	
	Connective tissues	Masson Trichrome	
	Mucins, glycogen	PAS	
	Diastase resistant mucin	PAS+D	
	Basement membranes, fungi	PAS	
	Basement membranes, fungi	PAS+D	



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<p><b>HUMAN BODY TISSUES AND FLUIDS (cont'd)</b></p> <p>Formalin fixed paraffin embedded routine histopathology and neuropathology tissue samples including neurones, myelin, astrocytes, axons, tangles, plaques, amyloid, infections, primary and secondary tumours, pituitary, muscle, nerve and ocular tissue (cont'd)</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities (cont'd)</p>	<p><u>Special Staining</u></p> <p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with H2627 and manufacturer's instructions for the following methods (where relevant)</p>	A
	<p>Detection of the following: (cont'd)</p>	<p>Automated methods using: H2634 Use of the Dako Automated Artisan Link Pro and the following special stains</p>	
	<p>Reticulin fibres</p> <p>Spirochaetes, H.Pylori</p>	<p>Retic</p> <p>Warthin &amp; Starry</p>	A
	<p>Detection of the following:</p> <p>Glomerular basement membrane for counterstaining CD3 (transplant kidney</p>	<p>Manual in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods and special stains:</p> <p>H2635-CD3/PAS</p>	



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<p><b>HUMAN BODY TISSUES AND FLUIDS (cont'd)</b></p> <p>Formalin fixed paraffin embedded routine histopathology and neuropathology tissue samples including neurones, myelin, astrocytes, axons, tangles, plaques, amyloid, infections, primary and secondary tumours, pituitary, muscle, nerve and ocular tissue (cont'd)</p> <p>(and Frozen sections)</p>	<p><u>Histopathology</u> (cont'd)</p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities (cont'd)</p> <p>Detection of the following: (cont'd)</p> <p>Gram positive &amp; negative microorganisms</p> <p>Amyloid</p> <p>Collagen, Muscle, RBCs</p> <p>Myelin, Nissl substance</p> <p>Melanin, Argentaffin, Chromaffin, Lipofuscin</p> <p>Collagen, Muscle, RBCs</p> <p>Elastic fibres</p> <p>Fibrin, Collagen, Muscle, RBCs</p>	<p><u>Special Staining</u></p> <p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with H2627 and manufacturer's instructions for the following methods (where relevant)</p> <p>Manual in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods and special stains:</p> <p>H2607- Gram's stain (Histopathology) H6626 - Gram's stain (Neuropathology)</p> <p>H6620 Congo Red H6525 Modified Congo red for Amyloid Filaments in IBM H2628 Congo Red Method for Amyloid Demonstration</p> <p>H2610 HVG</p> <p>H6635 Luxol Blue Cresyl Violet (LFB/CV)</p> <p>H2613 Masson Fontana</p> <p>H2614 Masson Trichrome</p> <p>H2615 Millers Elastic van Gieson</p> <p>H2616 MSB</p>	A





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<p><b>HUMAN BODY TISSUES AND FLUIDS (cont'd)</b></p> <p>Formalin fixed paraffin embedded routine histopathology and neuropathology tissue samples including neurones, myelin, astrocytes, axons, tangles, plaques, amyloid, infections, primary and secondary tumours, pituitary, muscle, nerve and ocular tissue (cont'd)</p> <p>Frozen sections</p>	<p><u>Histopathology</u> (cont'd)</p> <p>Preparation and examination to identify or exclude morphological &amp; cytological abnormalities (cont'd)</p> <p>Detection of the following: (cont'd)</p> <p>Mineralised bone, Canaliculi &amp; Lacunae in the centre of the trabeculae, Bone marrow, Osteoid seams</p> <p>Acid alcohol fast bacilli</p> <p>Neutral lipids</p>	<p><u>Special Staining</u></p> <p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with H2627 and manufacturer's instructions for the following methods (where relevant)</p> <p>Manual in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods and special stains:</p> <p>H2637 Von Kossa</p> <p>H6668 Ziehl-Neelsen Method</p> <p>H6647 Oil Red O Method</p>	A



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Histopathology</u> (cont'd)  Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	<u>Bone Marrow Trephines</u>	
Formalin fixed bone marrow trephines	Paraffin processing, slide preparation and staining (not including interpretation and reporting)	Automated staining for reticulin fibres staining using the Dako Artisan Link Pro carried out on accordance with H4015 Staining and sorting bone marrow trephines. Manual H4033 procedure for staining bone marrow trephines H&E	A
Frozen tissue for sectioning.	<u>Neuropathology</u>  Muscle and Nerve biopsy to identify or exclude morphological or cytological abnormalities for the purpose of diagnosis	<u>Enzyme histochemistry</u>  Macroscopic and Microscopic examination using in-house procedures (listed) using Leica CM1950 (H2312) Stereo dissecting microscope (H6101, H6121) and manual staining in conjunction with manufacturer's instructions for the following methods (where relevant)	A
	Acid Phosphatase	H6503 Acid Phosphatase - Naphthol AS-BI Phosphate	
	Myoadenylate Deaminase	H6505 Myoadenylate Deaminase (AMPDA)	
	Adenosine Triphosphate	H6507 Adenosine Triphosphate (ATPase)	
	Metachromatic ATPase	H6514 Metachromatic ATPase	
	NADH - Tetrazolium Reductase	H6515 NADH - Tetrazolium Reductase	
	Muscle Phospho-Fructokinase (PFK)	H6518 Muscle Phospho-Fructokinase (PFK)	
	Myophosphorylase	H6521 Myophosphorylase Method	



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<p><b>HUMAN BODY TISSUES AND FLUIDS (cont'd)</b></p> <p>Frozen tissue for sectioning. (cont'd)</p>	<p><u>Neuropathology</u> (cont'd)</p> <p>Muscle and Nerve biopsy to identify or exclude morphological or cytological abnormalities for the purpose of diagnosis (cont'd)</p> <p>Succinate Dehydrogenase</p> <p>Alkaline phosphatase</p>	<p><u>Enzyme histochemistry</u></p> <p>Macroscopic and Microscopic examination using in-house procedures (listed) using Leica CM1950 (H2312) Stereo dissecting microscope (H6101, H6121) and manual staining in conjunction with manufacturer's instructions for the following methods (where relevant)</p> <p>H6529 Cytochrome Oxidase/Succinate Dehydrogenase</p> <p>H6911 Alkaline phosphatase (NBT Method)</p> <p><u>Electron Microscopy</u></p>	<p>A</p>
<p>Glutaraldehyde fixed human tissue. Resin embedded tissue including Muscle/nerve CNS and renal tissues processed for electron microscopy</p>	<p>Ultrastructural analysis of glutaraldehyde fixed human tissue.</p>	<p>Use of the Jeol 1400 transmission electron microscope and AMT camera system using procedures: H3002, H3003, H3013, H3014, H3015, H3017, H3021, H3022</p>	<p>A</p>
END			