


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 9881</p> <p>Accredited to ISO 15189:2012</p>	<p>University Hospitals Plymouth NHS Trust</p> <p>Issue No: 002 Issue date: 20 November 2020</p>	
	<p>Cellular and Anatomical Pathology University Hospitals Plymouth NHS Trust Derriford Hospital Plymouth PL6 8DH</p>	<p>Contact: Carole Stoddard Tel: +44 (0)1752430097 E-Mail: carole.stoddard@nhs.net Website: www.plymouthhospitals.nhs.uk</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>Cellular and Anatomical Pathology Derriford Hospital Plymouth PL6 8DH</p> <p>Carole Stoddard Tel: +44 (0) 1752430097 E-Mail: carole.stoddard@nhs.net</p>	<p>Histopathology Neuropathology Non-gynae Cytology Electron Microscopy</p>	A

Site activities performed away from the locations listed above:

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



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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 TISSUES AND FLUIDS</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:</p> <p>H1102 Non-Gynae Specimen Receipt, Preparation and Workflow H1205 Preparation of preformed clots H2236 Cell block processing Sakura VIP5 Cell block microtomy - Leica RM2135, RM2235, Microm HM200, Jung H2409 H1221 Suspected TSE CSF preparation</p>	A
	<p>Diagnostic Non-Gynae Cytopathology</p>	<p>H1210 Fine Needle Aspirations and manual Hema Gurr rapid Giemsa Staining H1209 Preparation of Fine Needle Aspiration and Direct Smears Samples, including Needle Washings</p>	A and B
	<p>Visualisation of nuclear detail and other cellular constituents</p>	<p>H1402 ThermoShandon Cytospin4 H1403 ALC PK 120 centrifuge</p> <p>Manual staining using in-house procedures for (as appropriate): H1304 May Grunwald Giemsa H1306 Papanicolaou H1301 Routine Giemsa</p>	A



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<p>HUMAN BODY TISSUES AND FLUIDS (cont'd)</p> <p>Slides prepared in house as above and pre-prepared slides of aspirated cells and body fluids</p> <p>Various human diagnostic tissues both surgical (including neuropathological and haematological surgical specimens) and post mortem tissues</p> <p>Formalin fixed tissues and Cassettes containing human tissue</p>	<p><u>Diagnostic Non-Gynae Cytopathology (cont'd)</u></p> <p>Morphological assessment and interpretation/diagnosis</p> <p><u>Histopathology</u></p> <p>Preparation and examination to identify or exclude morphological & cytological abnormalities</p> <p>Tissue specimen microanalysis, dissection and sampling</p>	<p>Macroscopic and Microscopic examination using documented in-house methods incorporating manufacturers' instructions:</p> <p>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</p> <p>In conjunction with manufacturer's instructions</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>Macroanalysis and dissection Manual method using:</p> <p>H2004 Dissection – Opening Specimens H2042 Cut Up: Specimen Dissection and Biopsy Transfer H2043 Dissection General Instructions HHF130 Print Mate Cassette Writer Quick Guide</p> <p>Decalcification: USE33 Manual technique H2015 Specimens requiring decalcification</p>	A



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<p>HUMAN BODY TISSUES AND FLUIDS (cont'd)</p> <p>Various human diagnostic tissues both surgical (including neuropathological and haematological surgical specimens) and post mortem tissues</p> <p>Fresh and frozen tissue</p> <p>Brain smears</p> <p>Zamboni's fixed tissue: Free-floating frozen sections</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological & cytological abnormalities</p> <p>Intra-operative diagnosis: Tinctorial staining of tissue sections</p> <p>Basophilic and eosinophilic tissue structures</p> <p><u>Neuropathology</u></p> <p>Intra epidermal nerve fibre density studies</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>Tissue specimen dissection: H2042-Cut Up: Specimen Dissection and Biopsy Transfer, H2043-Dissection General Instructions</p> <p>Rapid frozen section: Cryotomy and manual Haematoxylin & Eosin (H&E) staining method using using: Cryostats – Thermo Shandon Cryotome FSE, Leica CM1950 H2312 Frozen Sections H2611 Special stains - Hand stained Haematoxylin and Eosin</p> <p>Reporting: H2101 Pathologist working patterns including obtaining work, prioritisation of specimens and generating all types of reports and authorisation</p> <p>Manual methods using procedures H6223, H6222 (preparation), H6211(staining) H2611 Special stains - Hand stained H&E H6628 Neuro Hand stained H&E</p> <p>Bright Cryostage/Sledge Microtome H6160 - Skin biopsy for peripheral neuropathy</p>	A



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<p>HUMAN BODY TISSUES AND FLUIDS (cont'd)</p> <p>Various human diagnostic tissues both surgical (including neuropathological and haematological surgical specimens) and post mortem tissues</p> <p>Formalin fixed paraffin embedded (FFPE) routine histopathology and neuropathology tissue</p> <p>Formalin fixed, paraffin embedded (FFPE) tissue and frozen tissue</p>	<p>Preparation and examination to identify or exclude morphological & cytological abnormalities</p> <p><u>Histopathology</u></p> <p>Processing of tissues</p> <p>Embedding processed tissues</p> <p>Sectioning and slide production</p> <p>Basophilic and eosinophilic tissue structures</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>Tissue Processing: H2236 Sakura VIP5 H2237 Leica Peloris H2238 Shandon Excelsior H6260 VIP 5 Neuropathology processor operation</p> <p>Embedding using Sakura Tissue Tek embedding centres H2301 Embedding standard cassettes H2302 Multiwell Cassettes for Endoscopic Biopsies H6206 Special orientation at embedding - Neuropathology</p> <p>Microtomy: Leica RM2135, RM2235, Microm HM200, Jung: H2409 Sectioning H6244 Cutting levels, serials and deepers - Neuropathology</p> <p>Routine Histology Haematoxylin and Eosin staining & coverslipping: H2325 Use of Sakura Prisma Stainer (automated H&E) H2611 Special Stains- Hand stained H&E H6628 Manual H&E Staining</p>	<p>A</p>



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<p>HUMAN BODY TISSUES AND FLUIDS (cont'd)</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>	<p><u>Histopathology (cont'd)</u></p> <p>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</p> <p>Histopathology, neuropathology immunocytochemistry examination to identify or exclude morphological & cytological abnormalities</p>	<p><u>Immunocytochemistry</u></p> <p>Microscopy qualitative analysis using procedures: H2101, or as specified in medical examination procedures H2111-H2182 and microscopes referenced above</p> <p>Macroscopic and Microscopic examination using in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods (where relevant)</p>	A
<p>FFPE tissue</p>	<p>Detection of the following:</p> <p>Pituitary hormone</p> <p>Epithelium</p> <p>Alpha fetal protein</p> <p>Anaplastic lymphoma kinase</p> <p>Alpha 1 anti-trypsin</p> <p>AMACR</p> <p>Amyloid A</p> <p>Androgen receptor</p>	<p>Automated methods using: H4029, H4030, H4031, H4216, H4037, H4038, H4039, H6318 Use of the Dako Omnis autostainer and the following antibodies:</p> <p>ACTH</p> <p>AE1/3 (multi CK)</p> <p>AFP</p> <p>ALK1</p> <p>Alpha 1AT</p> <p>AMACR (upregulation in PCa)</p> <p>Amyloid A</p> <p>Androgen receptor</p>	



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u>	<u>Immunocytochemistry (cont'd)</u>	A
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:	
	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	
	CA125	CA125	
	C cell thyroid	Calcitonin	
	Smooth muscle cells	Caldesmon	
	Mesothelial cells	Calretinin	
	Epithelial cells	Cam 5.2	



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u> Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	<u>Immunocytochemistry (cont'd)</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:	
	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	
	B cell, follicular dendritic receptor	CD21	
	T cells	CD23	
	Reed Sternberg cells	CD30	



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FFPE tissue (cont'd)	Detection of the following: Endothelial cells Endothelial cells Activated B & T Cells, plasma cells, monocytes T cells Leucocyte common antigen Nerves and NK cells T Cells (CD8/ NK cells) Monocyte/macrophage B Cell Ewing's sarcoma tumour cells, thymocytes Gastrointestinal stromal tumours (GIST), mast cells, Cajal cells	Automated methods using: H4029, H4030, H4031, H4216, H4037, H4038, H4039, H6318 Use of the Dako Omnis autostainer and the following antibodies: CD31 CD34 CD38 CD43 CD45 (LCA) CD56 CD57 CD68 CD79a CD99 (Mic II) 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	



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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:	
	Striated, smooth, skeletal muscle	Desmin	
	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	



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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:	
	Human Chorionic Gonadotrophin hormone	HCG	
	Hepatocytes	Hepar 1	
	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	
	α - inhibin (germ cells)	Inhibin	
	Kappa light chain	Kappa	



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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:	
	Plasma cells	Kappa	
	Lambda light chain	Lambda	
	Plasma cells	Lambda	
	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	



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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, plasma cells, activated T cells	MUM-1	
	Myeloid cells	Myeloperoxidase (MPO)	
	Skeletal muscle cells	Myogenin	
	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	
	HIV	P24	
	P53 (oncogene)	P53	
	P63	P63	
	B Cells	Pax 5	



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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:	
	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)	
	Prostate specific antigen	PSA	
	Nerves and neuroendocrine differentiation	PGP 9.5	
	Renal cell carcinoma	Renal Cell CC	
	Nerve, myoepithelial cells, fat	S100	
	Smooth muscle actin	SMA	
	Anti-somatostatin Receptor 2	SSTR2	
	Solitary fibrous tumours	STAT6	



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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:	
	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	
	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	



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Issue No: 002 **Issue date:** 20 November 2020

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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>	<u>Immunocytochemistry (cont'd)</u>	A
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	
	Prostatic alkaline phosphatase	PAP	
	PD1	PD1	
	Pituitary hormone	Prolactin	
	Simian aids virus (renal panel)	SV40	
		<u>In-situ hybridisation</u>	
FFPE routine histopathology and neuropathology tissue	Histopathology, Neuropathology in-situ hybridisation	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:	
	Detection of the following:		
	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	



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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 (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)	
Frozen tissue only	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:	
	Dystrophin (N-terminus)	Dystrophin III	
	Cells of astrocytic origin	GFAP	
	Major Histocompatibility complex class I	HLA-1	
	Major Histocompatibility complex class II	HLA-DR (II)	
	Brain tumour marker	IDH-1	
	Cells of astrocytic origin	MIB-1	
Frozen tissue only	Neuron (axons)	Neuro filament protein NFP	
Frozen tissue only	Neurons and nerve fibres	PGP9.5	



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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 (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)	
Frozen tissue only	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:	
	Muscle – Spectrin	Spectrin	
	Tau protein	Tau	
	Vimentin filaments	Vimentin	
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>HUMAN BODY TISSUES AND FLUIDS (cont'd)</p> <p>Frozen tissue sections of skin and renal</p>	<p><u>Histopathology</u></p> <p>Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)</p> <p>Routine H&E staining: Manual methods using procedures H2611</p> <p>Detection of the following:</p> <p>Complement factor (fluorescent)</p> <p>Fibrinogen (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&E staining: Manual methods using procedures H2611</p> <p>Manual methods using procedures: H4016, H4028 and antibodies as appropriate:</p> <p>C1Q FITC C3 FITC</p> <p>Fibrinogen 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>	<p>A</p>



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<p>HUMAN BODY TISSUES AND FLUIDS (cont'd)</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 & cytological abnormalities (cont'd)</p> <p>Detection of the following:</p> <p>Acidic & neutral mucins</p> <p>Diastase resistant acidic and neutral mucins</p> <p>Acid alcohol fast bacilli</p> <p>Fungi</p> <p>Haemosiderin, ferric iron, asbestos (ferruginous bodies Haemopoietic)</p> <p>Basement membranes (basal laminae)</p> <p>Connective tissues</p> <p>Mucins, glycogen</p> <p>Diastase resistant mucin</p> <p>Basement membranes, fungi</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>Automated methods using: H2634 Use of the Dako Automated Artisan Link Pro and the following special stains</p> <p>ABPAS</p> <p>ABPAS+D</p> <p>AFB</p> <p>Grocott Methenamine Silver (GMS)</p> <p>Iron</p> <p>Jones' Methenamine silver</p> <p>Masson Trichrome</p> <p>PAS</p> <p>PAS+D</p> <p>PAS</p>	A



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<p>HUMAN BODY TISSUES AND FLUIDS (cont'd)</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</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)</p> <p>Detection of the following:</p> <p>Basement membranes, fungi</p> <p>Reticulin fibres</p> <p>Copper associated protein</p> <p>Spirochaetes, H.Pylori</p> <p>Detection of the following:</p> <p>Glomerular basement membrane for counterstaining CD3 (transplant kidney)</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>Automated methods using: H2634 Use of the Dako Automated Artisan Link Pro and the following special stains</p> <p>PAS+D</p> <p>Retic</p> <p>Shitaka Orcein</p> <p>Warthin & Starry</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>	A



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<p>HUMAN BODY TISSUES AND FLUIDS (cont'd)</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</p> <p>(and Frozen sections)</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)</p> <p>Detection of the following:</p> <p>Gram positive & negative microorganisms</p> <p>Amyloid</p> <p>Collagen, Muscle, RBCs</p> <p>Mylein, 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 (cont'd)</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) 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>HUMAN BODY TISSUES AND FLUIDS (cont'd)</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</p> <p>(and Frozen sections)</p> <p>(and Frozen sections)</p> <p>(and Frozen sections)</p> <p>(and Frozen sections)</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)</p> <p>Detection of the following:</p> <p>Mucins, glycogen</p> <p>Glomerular basement membrane</p> <p>Iron</p> <p>Neuroglia, astrocytes</p> <p>Mitochondria and nemaline rods</p> <p>Collagen</p> <p>Reticulin fibres</p> <p>Copper associated protein</p> <p>Mylein</p>	<p><u>Special Staining (cont'd)</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>H6517 Periodic Acid-Schiff (PAS)</p> <p>H2620 PAS-Tartrazine</p> <p>H6653 Perls (Gomori Modification) Method</p> <p>H6655 Phosphotungstic Acid Haematoxylin (PTAH)</p> <p>H6510 Modified Gomori Trichrome</p> <p>H6528 Picro-Sirius Red for Muscle Biopsy Collagen</p> <p>H6669 Reticulin James Method</p> <p>H2618 Shikata Orcein</p> <p>H6660 Solochrome Cyanine</p>	A



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<p>HUMAN BODY TISSUES AND FLUIDS (cont'd)</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</p>	<p><u>Histopathology (cont'd)</u></p> <p>Preparation and examination to identify or exclude morphological & 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:</p>	<p>Manual in-house procedures (listed) in conjunction with manufacturer's instructions for the following methods and special stains:</p>	
	<p>Mast cells</p>	<p>H2623 Toluidine blue for mast cells</p>	
	<p>Fungi</p>	<p>H6664 Tome for Fungi Method</p>	
	<p>Mineralised bone, Canaliculi & Lacunae in the centre of the trabeculae, Bone marrow, Osteoid seams</p>	<p>H2637 Von Kossa</p>	
<p>Frozen sections</p>	<p>Acid alcohol fast bacilli</p> <p>Neutral lipids</p>	<p>H6668 Zielh Nielson Method</p> <p>H6647 Oil Red O Method</p>	B
<p>Fine needle aspirations from ENT/Ultrasound clinics</p>	<p>Preparation and examination to identify or exclude morphological & cytological abnormalities for the purpose of diagnosis</p>	<p>Manual slide preparation and Hema Gurr rapid Giemsa staining using procedures H1209 and H1</p>	



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HUMAN BODY TISSUES AND FLUIDS (cont'd)	<u>Histopathology (cont'd)</u> Preparation and examination to identify or exclude morphological & cytological abnormalities (cont'd)	<u>Bone Marrow Trepines</u>	A
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	
Frozen tissue for sectioning. Formalin fixed paraffin embedded 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)	
	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>HUMAN BODY TISSUES AND FLUIDS (cont'd)</p> <p>Frozen tissue for sectioning. Formalin fixed paraffin embedded tissue for sectioning</p> <p>Glutaraldehyde fixed human tissue. Resin embedded tissue including Muscle/nerve CNS and renal tissues processed for electron microscopy</p>	<p><u>Neuropathology</u></p> <p>Muscle and Nerve biopsy to identify or exclude morphological or cytological abnormalities for the purpose of diagnosis</p> <p>Succinate Dehydrogenase</p> <p>Alkaline phosphatase</p> <p>Ultrastructural analysis of glutaraldehyde fixed human tissue.</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>Use of the Jeol 1400 transmission electron microscope and AMT camera system using procedures: H3002, H3003, H3013, H3014, H3015, H3017, H3021, H3022</p>	A
END			