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Testing performed at the above address only

Additional site activity performed away from the laboratory

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS Tissue samples	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant: Specimen dissection: AFOS ventilated table Cut-up (NEURO GEN 104 and 105) Protocol for Handling and Reporting CNS Biopsy Specimens (except Epilepsy Surgery) using SOP NEURO GEN 046 Protocol for Handling and Reporting Pituitary Biopsies using SOP NEURO GEN 047 Protocol for Reporting Autopsy Histology using SOP NEURO GEN 049 Protocol for Handling and Reporting Epilepsy Surgery Specimens using SOP NEURO GEN 059 Manual decalcification using Evan's Kraian reagent SOP NUERO GEN 033 Tissue processing: Thermo-Shandon Excelsior Tissue Processor (NEURO GEN 057)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Tissue samples (cont'd)		Embedding Leica EG1150H Embedding Centre (NEURO GEN 035) Microtomy Leica RM2235 rotary microtome
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides	H&E staining for tissue architecture and nuclear detail (Identification of basophilic and eosinophilic structures)	Haematoxylin and Eosin staining SOP NEURO GEN 088 using a Gemini Staining Machine
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides	**Special staining (manual) for the identification of:**	Manual staining using the following SOPs
	Mucins	Alcian Blue using SOP NEURO STAIN 001
	Mucins	Alcian Blue - Periodic Acid Schiff using SOP NEURO STAIN 002
	Neurofibrillary tangles	Bielschowsky's Silver Stain using SOP NEURO STAIN 003
	Amyloid	Congo Red using SOP NEURO STAIN 004
	Nissl substance	Cresyl Fast Violet using SOP NEURO STAIN 005
	Elastic fibres	Elastic Van Gieson (Miller's) using SOP NEURO STAIN 008
	Gram +ve and –ve organisms	Gram-Twort using SOP NEURO STAIN 012
	Fungi	Grocott (hexamine silver method) using SOP NEURO STAIN 013
	Collagen	Haematoxylin Van Gieson using SOP NEURO STAIN 0016

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	**Special staining (manual) for the identification of** (cont'd):	
	Myelin sheaths (CNS)	Luxol Fast Blue/Cresyl Fast Violet (LFB/Nissl) using SOP NEURO STAIN 019
	Melanin	Masson-Fontana using SOP NEURO STAIN 020
	Carbohydrates	PAS Diastase using SOP NEURO STAIN 007
	Mucins, fungi and carbohydrates	Periodic-Acid Schiff Technique (PAS) using SOP NEURO STAIN 022
	Ferric iron	Perls' Prussian Blue using SOP NEURO STAIN 023
	Reticulin fibres	Reticulin (Gordon & Sweet's) using SOP NEURO STAIN 024
	Myelin sheaths (PNS)	Solochrome Cyanine using SOP NEURO STAIN 030
	Mineralised bone and calcium deposits	Von Kossa SOP NEURO STAIN 025
	Leprosy bacilli	Wade-Fite SOP NEURO STAIN 027
	TB bacilli	Ziehl Neelsen (Cold Method) SOP NEURO STAIN 028

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides	**Immunohistochemistry for the identification of:**	Immunohistochemistry: Bond III automated method SOP Neuro GEN 067 immunohistochemistry. Using antibodies to:
	Prion protein	12F10
	Amyloid plaques	A4 (β-A4)
	Adrenocorticotrophic hormone	ACTH
	Smooth muscle cells	Actin (SMA)
	Alpha fetoprotein	AFP
	32KDa human inhibin	Alpha Inhibin
	Apolipoprotein J – nerve fibre injury	ApoJ
	Amyloid precursor protein – nerve fibre injury	APP
	Cell membrane protein found in brain	Aquaporin 4
	Loss of expression is associated with astrocytomas	ATRX
	Embryonic tumours	BAF47
	Used to aid classification of lymphomas	BCL2
	Used to aid classification of lymphomas	BCL6
	Used to aid sub-typing of medulloblastomas	Beta-Catenin

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	**Immunohistochemistry for the identification of** (cont'd):	Immunohistochemistry: Bond III automated method SOP Neuro GEN 067 immunohistochemistry. Using antibodies to:
	Neuroanatomical marker	Calretinin
	Used to aid classification of lymphomas and renal cell carcinomas	CD10
	Used to aid classification of B-cell lymphomas	CD138
	Demonstration of Reed-Sternberg and other cell types	CD15
	Used to aid classification of lymphomas	CD1a
	Antigen on B lymphocytes	CD20 (L26)
	Used to aid classification of lymphomas	CD23
	Antigen on T lymphocytes	CD3
	Reed-Sternberg cells	CD30
	Endothelial cells	CD34
	T-cell subset	CD4
	Lymphocytes	CD45
	Used to aid classification of lymphomas	CD5

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	**Immunohistochemistry for the identification of** (cont'd):	Immunohistochemistry: Bond III automated method SOP Neuro GEN 067 immunohistochemistry. Using antibodies to:
	Nerve and neuroendocrine cells	CD56
	Macrophages and mononuclear cells	CD68
	Used to aid classification of B-cell lymphomas	CD79a
	T-cell subset	CD8
	Ewing's Sarcoma marker	CD99
	Antigen in intestinal epithelium	CDX2
	Granules in neuroendocrine cells	Chromogranin A
	Cytokeratin in specific epithelium	CK07
	Cytokeratin in gastro-intestinal cells	CK20
	Cytokeratin in epithelium	CK5/6
	Cytomegalovirus	CMV
	Used to aid classification of lymphomas	Cyclin D1
	Smooth and striated muscle cells	Desmin
	Protein in epithelial cells	EMA
	Follicle Stimulating Hormone	FSH

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	**Immunohistochemistry for the identification of (**cont'd):	Immunohistochemistry: Bond III automated method SOP Neuro GEN 067 immunohistochemistry. Using antibodies to:
	Used to aid identification of rare Dementias	FUS
	Used in classification of Medulloblastomas	GAB1
	Glycoprotein in specific epithelium	GCDFP15
	Glial Fibrillary Acidic Protein	GFAP
	Growth Hormone	GH
	Tri-Methyl-Histone H3	H3K27me3
	Human Chorionic Gonadotrophin	HCG
	Used to aid identification of gliomas	Histone3
	HLA Class II DR Antigen	HLA-DR
	Used to aid identification of melanomas	HMB45
	Neuronal cell marker	HuC/D
	Used to aid identification of gliomas	IDH1
	Kappa light chain – used to identify tumour monoclonality	Kappa
	Nuclear protein in proliferating cells	Ki67

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	**Immunohistochemistry for the identification of** (cont'd):	Immunohistochemistry: Bond III automated method SOP Neuro GEN 067 immunohistochemistry. Using antibodies to:
	Lambda light chain – used to identify tumour monoclonality	Lambda
	Ependymoma marker	L1CAM
	Leutinzing Hormone	LH
	Microtubule Associated Protein – neuronal cell marker	MAP2
	Used as an aid in tumour identification	MGMT
	Cytokeratin expressed in a range of epithelial cells	MNF116
	Mismatch repair protein	MSH2
	Used to aid classification of lymphomas	MUM1
	Sub-typing muscle fibres	Myosin (Fast)
	Sub-typing muscle fibres	Myosin (Slow)
	Neuronal cell marker	Nestin
	Neuronal cell marker	NeuN
	Nerve fibres	NF200KD
	Neuronal cell marker	NSE

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	**Immunohistochemistry for the identification of** (cont'd):	Immunohistochemistry: Bond III automated method SOP Neuro GEN 067 immunohistochemistry. Using antibodies to:
	Cell proliferation marker	P53
	Used to aid classification of Dementias	P62
	Used as a marker in Pituitary tumours	Pan-α
	Neuronal cell marker	Parvalbumin
	Demonstration of small nerve fibres in skin biopsies	PGP9.5
	Progesterone receptor expression in tumours	PGR
	Enzyme produced by trophoblasts	PLAP
	Demonstration of Pneumocystis organism	Pneumocystis
	Used to aid classification of Dementias	Polyglutamine
	Prolactin hormone	Prolactin
	Used to aid classification of metastatic carcinomas	PSA
	Expressed in a range of cell types including glial cells	S100

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)	**Immunohistochemistry for the identification of (**cont'd):	Immunohistochemistry: Bond III automated method SOP Neuro GEN 067 immunohistochemistry. Using antibodies to:
	Diagnostic marker for haemangiopericytomas	Stat6
	SV40 virus	SV40
	Demonstration of synaptophysin producing cells	Synaptophysin
	Used to aid classification of Dementias	Synuclein
	Used to aid classification of Dementias	Tau (AT8)
	Used to aid classification of Dementias	Tau3
	Used to aid classification of Dementias	Tau4
	Used to aid classification of Dementias	TDP43-P
	Demonstration of Toxoplasma organism	Toxoplasma
	Thyroid stimulating hormone	TSH
	Nuclear protein in lung and thyroid	TTF1
	Used in classification of Medulloblastomas	YAP1

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Stained slides prepared as above	Morphological assessment and interpretation/diagnosis	Microscopic examination: Assorted range of diagnostic bright-field microscopes Protocol for Handling and Reporting CNS Biopsy Specimens (except Epilepsy Surgery) using SOP NEURO GEN 046 Protocol for Handling and Reporting Pituitary Biopsies using SOP NEURO GEN 047 Protocol for Reporting Autopsy Histology using SOP NEURO GEN 049 Protocol for Handling and Reporting Epilepsy Surgery Specimens using SOP NEURO GEN 059
Brain biopsy		Preparation of Smears and Frozen Sections for Intra-operative Diagnosis Howarth Class I Safety Cabinet Bright BM Cryostat
	H&E staining for tissue architecture and nuclear detail (Identification of basophilic and eosinophilic structures)	Staining smears and frozen sections for intra-operative diagnosis (NEURO STAIN 025) Haematoxylin and Eosin
Stained brain biopsy slides prepared as above	Morphological assessment and interpretation/diagnosis	Protocol for intra-operative smears and frozen sections (NEURO GEN 048)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Muscle biopsy		Preparation of Frozen Sections Howarth Class I Safety Cabinet Bright BM Cryostat Preparation of muscle biopsies using the following Laboratory Protocol for Handling Muscle Biopsies, SOP NEURO MUSCLE 008
Muscle fresh/frozen on glass slides	**Muscle Histochemistry and special staining techniques for the identification of**:	Manual staining using the following SOPs
	Lysosomal acid phosphotase	Acid Phosphatase, Lysosomal (substituted naphthol method) using SOP NEURO MUSCLE 003
	Cytochrome oxidase	Cytochrome Oxidase using SOP NEURO MUSCLE 005
	Muscle architecture	Gomori's Trichrome using SOP NEURO MUSCLE 006
	Myoadenylate deaminase	Myoadenylate Deaminase using SOP NEURO MUSCLE 011
	Myophosphorylase	Myophosphorylase using SOP NEURO MUSCLE 012
	NADH-Tetrazolium reductase	NADH-Tetrazolium Reductase (DPNH Diaphorase) using SOP NEURO MUSCLE 013
	Succinate dehydrogenase	Succinate Dehydrogenase using SOP NEURO MUSCLE 017

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Muscle fresh/frozen on glass slides (cont'd)	**Muscle Histochemistry and special staining techniques for the identification of**: (cont'd)	Manual staining using the following SOPs
	Lipids	Sudan Black B using SOP NEURO MUSCLE 018
	Glycogen and muscle basement membrane	PAS/Diastase-PAS/Celloidin-PAS (for muscle only) using SOP NEURO MUSCLE 015
	Muscle architecture	Haematoxylin & Eosin (Harris') for Muscle Biopsies using SOP NEURO MUSCLE 022
	Combined demonstration of cytochrome oxidase and succinic dehydrogenase	Combined Cytochrome Oxidase-Succinate Dehydrogenase (COX-SDH Method) using SOP NEURO MUSCLE 023
	Muscular dystrophies	Dys1
	Muscular dystrophies	Dys2
	Muscular dystrophies	Dys3
	Muscle Immunohistochemistry for the identification of:	Immunohistochemistry - Manual (Vectastain Universal Elite ABC Kit) using SOP NEURO STAIN 017 Muscle Immunocytochemistry using SOP NEURO MUSCLE 010
	Sarcoglycanopathies	Sarc (alpha)
	Sarcoglycanopathies	Sarc (beta)
	Sarcoglycanopathies	Sarc (gamma)
	Sarcoglycanopathies	Sarc (delta)

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HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Muscle fresh, frozen on glass slides (cont'd)	**Muscle Immunohistochemistry for the identification of:** (cont'd)	Immunohistochemistry - Manual (Vectastain Universal Elite ABC Kit) using SOP NEURO STAIN 017 Muscle Immunocytochemistry using SOP NEURO MUSCLE 010
	Congenital muscular dystrophies	Laminin Alpha-5
	Congenital muscular dystrophies	Laminin Alpha-2 (80KD)
	Congenital muscular dystrophies	Laminin Alpha-2 (300KD)
	Congenital muscular dystrophies	Laminin Beta-1
	Congenital muscular dystrophies	Laminin Gamma-1
	Rare muscle diseases	Emerin
	Rare muscle diseases	Lamin A/C
	Limb-girdle muscular dystrophy	Dysferlin 1
	Limb-girdle muscular dystrophy	Dysferlin 2
	Limb-girdle muscular dystrophy	Caveolin 3
	Inflammatory myopathies	Utrophin
	Inflammatory myopathies	HLA-ABC
	Inflammatory myopathies	Myosin (neonatal)
	Inflammatory myopathies	C5b-9
	Myofibrillary myopathies	Myotilin
	Cytoskeletal protein	Spectrin
	Sub-typing muscle fibres	Myosin (fast)

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd)	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Muscle fresh, frozen on glass slides (cont'd)	**Muscle Immunohistochemistry for the identification of:** (cont'd)	Immunohistochemistry - Manual (Vectastain Universal Elite ABC Kit) using SOP NEURO STAIN 017 Muscle Immunocytochemistry using SOP NEURO MUSCLE 010
	Sub-typing muscle fibres	Myosin (slow)
Stained muscle biopsy slides prepared as above	Morphological assessment and interpretation/diagnosis	Preparation of muscle biopsies using the following Laboratory Protocol for Handling Muscle Biopsies, SOP NEURO MUSCLE 008
	Cytopathology	Cytospin Preparations of Cerebrospinal fluid, Cyst fluid and Aspirates. Using SOP NEURO GEN 032
Cerebrospinal fluid, Cyst fluid and Aspirates	H&E staining for cellular architecture and nuclear detail (Identification of basophilic and eosinophilic structures)	Haematoxylin and Eosin staining SOP NEURO GEN 088 using a Gemini Staining Machine
H&E stained cytopathology slides	Morphological assessment and interpretation/diagnosis	Protocol for Handling and Reporting CNS Biopsy Specimens (except Epilepsy Surgery) using SOP NEURO GEN 046

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY TISSUE AND FLUIDS (cont'd)	Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis (cont'd) **Intra-epidermal Nerve Fibre Density analysis**	Macroscopic and Microscopic examination: Documented in house methods incorporating manufacturers' instructions where relevant:
Skin biopsies		Laboratory Protocol for Handling Skin Biopsies (Small-Fibre Neuropathies) using SOP NEURO GEN 040 Laboratory Protocol for handling nerve Biopsies using SOP NEURO GEN 039
	Demonstration of intra-epidermal nerve fibres	Staining: PGP9.5 using the ABC Immunocytochemistry – Manual (NEURO STAIN 017) protocol
Stained skin biopsy slides prepared as above	Morphological assessment and interpretation/diagnosis	Small Nerve Fibre Neuropathy - Counting and Reporting using SOP NEURO GEN 053
END		