


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 8620</p> <p>Accredited to ISO 15189:2022</p>	<h3>Synnovis Analytics LLP</h3> <p>Issue No:012 Issue date: 03 April 2025</p>	
	<p>Department of Clinical Neuropathology King's College Hospital NHS Foundation Trust Denmark Hill London SE5 9RS</p>	<p>Contact: Karen Boniface Tel: +44 020 7188 7188 ext. 54607 Fax: +44 (0)203 299 1956 E-Mail: karen.boniface1@nhs.net Website: www.kch.nhs.uk/gps/neuropathology-guide</p>
<p>Testing performed at the above address only</p>		

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
<p>HUMAN BODY TISSUE AND FLUIDS</p> <p>Tissue samples</p>	<p><u>Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u></p>	<p>Macroscopic and Microscopic examination:</p> <p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Specimen dissection: AFOS ventilated table Cut-up (NEURO GEN 031 and 063)</p> <p>Protocol for Handling and Reporting CNS Biopsy Specimens (except Epilepsy Surgery) using SOP NEURO GEN 046</p> <p>Protocol for Handling and Reporting Pituitary Biopsies using SOP NEURO GEN 047</p> <p>Protocol for Reporting Autopsy Histology using SOP NEURO GEN 049</p> <p>Protocol for Handling and Reporting Epilepsy Surgery Specimens using SOP NEURO GEN 059</p> <p>Decalcification</p> <p>Tissue processing: Thermo-Shandon Excelsior Tissue Processor (NEURO GEN 057)</p>



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



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



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



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin Fixed Paraffin Embedded Tissue (FFPE) sections on glass slides (cont'd)</p>	<p><u>Neuropathology examination activities in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</u> (cont'd)</p> <p>Immunohistochemistry for the identification of (cont'd):</p> <p>Used to aid identification of rare Dementias</p> <p>Used in classification of Medulloblastomas</p> <p>Glycoprotein in specific epithelium</p> <p>Glial Fibrillary Acidic Protein</p> <p>Growth Hormone</p> <p>Tri-Methyl-Histone H3</p> <p>Human Chorionic Gonadotrophin</p> <p>Used to aid identification of gliomas</p> <p>HLA Class II DR Antigen</p> <p>Used to aid identification of melanomas</p> <p>Neuronal cell marker</p> <p>Used to aid identification of gliomas</p> <p>Kappa light chain – used to identify tumour monoclonality</p> <p>Nuclear protein in proliferating cells</p>	<p>Macroscopic and Microscopic examination:</p> <p>Documented in house methods incorporating manufacturers' instructions where relevant:</p> <p>Immunohistochemistry; Bond III automated method SOP Neuro GEN 067 immunohistochemistry. Using antibodies to:</p> <p>FUS</p> <p>GAB1</p> <p>GCDPF15</p> <p>GFAP</p> <p>GH</p> <p>H3K27me3</p> <p>HCG</p> <p>Histone3</p> <p>HLA-DR</p> <p>HMB45</p> <p>HuC/D</p> <p>IDH1</p> <p>Kappa</p> <p>Ki67</p>



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



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



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



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Muscle biopsy		Documented in house methods incorporating manufacturers' instructions where relevant:
		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 phosphatase	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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Muscle fresh/frozen on glass slides (cont'd)	Muscle Histochemistry and special staining techniques for the identification of: (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant:
	Lipids	Manual staining using the following SOPs
	Glycogen and muscle basement membrane	Sudan Black B using SOP NEURO MUSCLE 018
	Muscle architecture	PAS/Diastase-PAS/Celloidin-PAS (for muscle only) using SOP NEURO MUSCLE 015
	Combined demonstration of cytochrome oxidase and succinic dehydrogenase	Haematoxylin & Eosin (Harris') for Muscle Biopsies using SOP NEURO MUSCLE 022
	Muscular dystrophies	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
	Sarcoglycanopathies	Muscle Immunocytochemistry using SOP NEURO MUSCLE 010
	Sarcoglycanopathies	Sarc (alpha)
	Sarcoglycanopathies	Sarc (beta)
	Sarcoglycanopathies	Sarc (gamma)
	Sarcoglycanopathies	Sarc (delta)



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Muscle fresh, frozen on glass slides (cont'd)	Muscle Immunohistochemistry for the identification of: (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant:
		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)



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Muscle fresh, frozen on glass slides (cont'd)	Muscle Immunohistochemistry for the identification of: (cont'd)	Documented in house methods incorporating manufacturers' instructions where relevant:
	Sub-typing muscle fibres	Immunohistochemistry - Manual (Vectastain Universal Elite ABC Kit) using SOP NEURO STAIN 017 Muscle Immunocytochemistry using SOP NEURO MUSCLE 010
Stained muscle biopsy slides prepared as above	Morphological assessment and interpretation/diagnosis	Myosin (slow)
	Cytopathology	Preparation of muscle biopsies using the following Laboratory Protocol for Handling Muscle Biopsies, SOP NEURO MUSCLE 008
Cerebrospinal fluid, Cyst fluid and Aspirates	H&E staining for cellular architecture and nuclear detail (Identification of basophilic and eosinophilic structures)	Cytospin Preparations of Cerebrospinal fluid, Cyst fluid and Aspirates. Using SOP NEURO GEN 032
H&E stained cytopathology slides	Morphological assessment and interpretation/diagnosis	Haematoxylin and Eosin staining SOP NEURO GEN 088 using a Gemini Staining Machine
		Protocol for Handling and Reporting CNS Biopsy Specimens (except Epilepsy Surgery) using SOP NEURO GEN 046



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