


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL</p> <p>8642</p> <p>Accredited to ISO 15189:2022</p>	<p>The Walton Centre NHS Foundation Trust</p> <p>Issue No: 018 Issue date: 25 November 2025</p>	
	<p>Lower Lane Fazakerley Liverpool Merseyside L9 7LJ</p>	<p>Contact: Wallis Hayes Tel: +44 (0) 151 556 3319 Fax: +44 (0) 151 529 5498 E-Mail: wallis.hayes1@nhs.net Website: thewaltoncentre.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>Address The Neurosciences Laboratories The Walton Centre Lower Lane Fazakerley Liverpool L9 7LJ United Kingdom</p>	<p>Local contact Wallis Hayes</p>	<p>Neurobiochemistry Neuroimmunology Neuropathology</p>	A
<p>Address Theatre Suite Hot Lab The Walton Centre Lower Lane Fazakerley Liverpool L9 7LJ United Kingdom</p>	<p>Local contact Wallis Hayes</p>	<p>Stereotactic biopsies</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
HUMAN BODY FLUIDS	<u>BIOCHEMISTRY</u>		
	<u>Biochemical examination activities for the purposes of clinical diagnosis:</u>	In house documented procedures based on equipment manuals and standard methods as specified below:	
Serum	Quantification of anti-epileptic drug levels:	By liquid chromatography tandem mass spectrometry using Waters Aquity Xevo TQ-S Micro with reference to SOPs BSMS1 & BSM10 and:	A
	Lamotrigine	SOP BSMS3	
	Total phenytoin	SOP BSMS2	
	Free phenytoin	SOP BSMS7	
	Carbamazepine	SOP BSMS2	
	Carbamazepine epoxide	SOP BSMS2	
	Phenobarbital	SOP BSMS2	
	Valproate	SOP BSMS2	
	Pregabalin	SOP BSMS5	
	Levetiracetam	SOP BSMS3	
	Topiramate	SOP BSMS6	
Serum	Midazolam	SOP BSMS4	
	Quantification of:	Roche Cobas c311 SOP BSR20	A
Serum & CSF	Total protein		
Serum, plasma & CSF	Glucose		
Serum	Albumin		
CSF	Lactate		



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HUMAN BODY FLUIDS (cont'd)	BIOCHEMISTRY (cont'd) <u>Biochemical examination activities for the purposes of clinical diagnosis:</u> (cont'd)	In house documented procedures based on equipment manuals and standard methods as specified below:	
Serum		Gel electrophoresis using Helena SAS-1plus & SAS-2 equipment with reference to and the following: SOP BSP2	A
Fluid & serum	Detection of normal and abnormal protein electrophoretic patterns Detection of Beta-2-transferrin	In house assay using Gel electrophoresis and immunochemical detection using Helena SAS-1plus SOP BSP1	A
CSF & serum	Detection of oligoclonal bands	In house assay using Isoelectric focusing using Pharmacia Biotech and immunoblotting SOP BSP3	A
CSF	CSF cell count and differential	Manual microscopy using Leica DM2000 microscope SOP BSR11	A
CSF	Detection of bilirubin (Xanthochromia)	By spectrophotometry using Analytik Jena SPECORD 210 Plus UV-Visible Spectrophotometer SOP BSR2	A
Serum	Detection of normal and abnormal protein electrophoretic patterns	By gel electrophoresis using Sebia Hydrasys 2 SOP BSP2	A
Serum	Detection of IgG, IgA and IgM heavy chains, and kappa & lambda light chains-	By gel electrophoresis using Sebia Hydrasys 2 SOP BSP4	A



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Serum</p> <p>CSF</p>	<p>BIOCHEMISTRY (cont'd)</p> <p>Biochemical examination <u>activities for the purposes of clinical diagnosis:</u> (cont'd)</p> <p>Quantification of IgG, IgA, IgM and Beta trace protein</p> <p>Quantification of albumin and IgG</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>By nephelometry using Siemens Atellica Neph SOP BSR4 SOP BSR22</p> <p>By nephelometry using Siemens Atellica Neph BSR4 Siemens Atellica Neph</p>	<p>A</p> <p>A</p>



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HUMAN BODY FLUIDS (cont'd)	<u>IMMUNOLOGY</u> <u>Immunological examination activities for the purposes of clinical diagnosis:</u>	In house documented procedures based on equipment manuals and standard methods as specified below:	
Serum	Quantification of: Antibodies to voltage gated calcium channels (VGCC)	Radioimmunoassay using Wizard Gamma Counter with reference to: SOP IS16	A
Serum	Antibodies to acetyl choline receptor (AChR)	SOP IS6	
Serum	Antibodies to muscle specific kinase (MuSK)	SOP IS28	
CSF & Serum	Paraneoplastic antibodies: Hu, Yo, Ri, CV2, amphiphysin, Ma1, Ma2, Tr, SOX-1, GAD65, Zic4, Titin, Recoverin, Protein Kinase C Gamma	Recombinant immunoblot with reference to: RAVO PNS14 kit SOPs IS14, IS2 & IS3	A
Serum	Detection of: Glycolipid /ganglioside antibodies (GM1, GM2, GD1a, GD1b, GQ1b)	ELISA using Biochrom EZ Read LED Microplate reader SOP IS39 In-house ELISA method SOP IS20	A
Serum	Qualitative detection of: Antibodies to myelin associated glycoprotein (MAG)	Buhlman anti-MAG ELISA kit SOP IS24 & IS39 Immunofluorescence using the EUROStar III plus Euroimmune microscope with reference to:	A A



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HUMAN BODY FLUIDS (cont'd) Serum & CSF Serum & CSF Serum Serum & CSF Serum	<p><u>IMMUNOLOGY</u> (cont'd)</p> <p><u>Immunological examination activities for the purposes of clinical diagnosis:</u> (cont'd)</p> <p>Detection of:</p> <p>NMDA Receptor Antibodies</p> <p>Antibodies to LGI1 and CASPR2</p> <p>Antibodies to IgLON5</p> <p>Antibodies to GABA-B</p> <p>Antibodies to AMPA1 & 2 and DPPX</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>SOP IS32 & IS37</p> <p>SOP IS35 & IS37</p> <p>SOP IS36 & IS37</p> <p>SOP IS37</p> <p>SOP IS37</p>	



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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 Fixed, fresh and frozen tissue; neuropathology tissue samples (brain biopsies, skull bone, spinal biopsies, temporal artery, nerve & muscle)	<u>NEUROPATHOLOGY</u> <u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</u>	Macroscopic and Microscopic examination using in house documented procedures based on equipment manuals and standard methods as specified below:	
		Specimen dissection HSB53	A
		Tissue Processing using Eprexia Excelsior AS tissue processor HSB75 Leica Peloris 3 tissue processor HSB77	A
		Tissue embedding using Leica Histocore Arcadia H&C embedding centre HSB57	A
		<u>Tissue Sectioning</u>	A
		Documented in-house procedure HSB58	
Intraoperative Quick Smears/Frozen Sections	Nuclei and other cellular components	SOP HSIN11 by manual H&E stain	A
Serial Stereotactic Preparations	Nuclei and other cellular components	SOP HSIN13 – Serial stereotactic preparation and reporting H&E Stain	B
Formalin fixed paraffin embedded tissue (FFPE Tissue)	Basophilic and eosinophilic structures	H&E stain and coverslipping using Leica Autostainer XL and CV5030 cover-slipper SOP HSS11	A



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<p>HUMAN BODY TISSUES Fixed, fresh and frozen tissue; neuropathology tissue samples (brain biopsies, skull bone, spinal biopsies, temporal artery, nerve & muscle) (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE Tissue) unless otherwise stated:</p>	<p><u>NEUROPATHOLOGY</u> (cont'd)</p> <p><u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</u> (cont'd)</p> <p><u>Special stains</u></p> <p>Detection of:</p> <p>Acid mucins</p> <p>Acid and neutral mucins</p> <p>Amyloid</p> <p>Neurones</p> <p>Elastin fibres</p> <p>Gram positive or negative bacteria</p> <p>Fungi</p> <p>Basophilic and eosinophilic structures</p> <p>Myelin and other CNS structures</p> <p>Connective tissue</p> <p>Connective tissue</p> <p>Fibrin</p> <p>Ferric iron salts</p>	<p>Macroscopic and Microscopic examination using in house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>Documented in-house procedure by manual staining</p> <p>SOP HSS1 – Alcian Blue</p> <p>SOP HSS2 – Alcian Blue / PAS Technique</p> <p>SOP HSS4 – Congo Red (Higmans)</p> <p>SOP HSS5 - Cresyl Violet Acetate</p> <p>SOP HSS6 – Elastic Van Gieson</p> <p>SOP HSS9 – Gram stain</p> <p>SOP HSS8 – Grocott Hexamine Silver technique</p> <p>SOP HSS11 – Haematoxylin and Eosin</p> <p>SOP HSS12 – Modified Luxol Fast Blue</p> <p>SOP HSS16 – Masson Trichrome Technique</p> <p>SOP HSS29 – Van Gieson</p> <p>SOP HSS17 – MSB technique</p> <p>SOP HSS21 – Perls Prussian Blue</p>	<p style="text-align: center;">A</p>



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<p>HUMAN BODY TISSUES Fixed, fresh and frozen tissue; neuropathology tissue samples (brain biopsies, skull bone, spinal biopsies, temporal artery, nerve & muscle) (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE Tissue) unless otherwise stated: (cont'd)</p>	<p><u>NEUROPATHOLOGY</u> (cont'd)</p> <p><u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</u> (cont'd)</p>	<p>Macroscopic and Microscopic examination using in house documented procedures based on equipment manuals and standard methods as specified below:</p>	A
	<p><u>Special stains</u> (cont'd)</p> <p>Detection of: (cont'd)</p> <p>Glycogen and other periodase-reactive carbohydrates</p> <p>Reticulin</p> <p>TB</p>	<p>Documented in-house procedure by manual staining</p> <p>SOP HSS20 – Periodic Acid Schiff with and without Diastase (PAS/DPAS)</p> <p>SOP HSS23 - Reticulin method (Gordon & Sweets)</p> <p>SOP HSS26 – Ziehl Neelsen stain</p>	
<p>Muscle biopsy frozen sections</p>	<p><u>Muscle Biopsy service</u></p> <p>Demonstration of lipofushin</p> <p>Fibre typing</p> <p>Mitochondrial complexes</p> <p>Mitochondrial complexes</p> <p>Basophilic and eosinophilic structures</p>	<p><u>Preparation of sample</u></p> <p>HSM1 – receipt and preparation of muscle tissue HMS3 – Frozen Section Protocol – Muscle biopsies</p> <p>Enzyme histochemistry using:</p> <p>SOP HSM12 - Acid Phosphatase</p> <p>SOP HSM13 by– Myofibrillar ATPase</p> <p>SOP HSM11 – Cytochrome oxidase</p> <p>SOP HSM8 by Muscle Tinctorial using Gomori Trichrome</p> <p>SOP HSM5 - Haematoxylin and Eosin</p>	A



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<p>HUMAN BODY FLUIDS AND TISSUES</p> <p>Formalin fixed paraffin embedded tissue (FFPE Tissue and muscle) unless otherwise stated:</p>	<p><u>IMMUNOHISTOCHEMISTRY</u></p> <p><u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis</u></p> <p>Neuro protein</p> <p>Pituitary hormone</p> <p>Alzheimer Precursor Protein</p> <p>Neuro protein</p> <p>Gliomas</p> <p>Transcription factor for chordomas & heamangioblastomas</p> <p>Epithelial cells – metastic disease</p> <p>CD1a positive cells</p> <p>Leukaemia antigen, clear cell renal carcinomas</p> <p>Vascular neoplasm</p> <p>Vascular epithelium</p> <p>Neuroectodermal cells, neurones, astrocytes</p> <p>B cells</p> <p>Plasma cell differentiation</p> <p>GI carcinoma marker</p> <p>Epithelial malignancy</p> <p>Neuroendocrine tumours</p>	<p>Automated immunohistochemical staining methods using Roche Ventana Benchmark Ultra SOP HSB59</p> <p>Alpha synuclein</p> <p>ACTH</p> <p>APP</p> <p>β-Amyloid (BAM)</p> <p>ATRX</p> <p>Brachyury</p> <p>CAM</p> <p>CD1a</p> <p>CD10</p> <p>CD31</p> <p>CD34</p> <p>CD56</p> <p>CD79a</p> <p>CD138</p> <p>CDX2</p> <p>CEA</p> <p>Chromogranin</p>	<p>A</p>



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>IMMUNOHISTOCHEMISTRY</u> (cont'd)		A
Formalin fixed paraffin embedded tissue (FFPE Tissue and muscle) unless otherwise stated: (cont'd)	<u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis</u> (cont'd)	Automated immunohistochemical staining methods using Roche Ventana Benchmark Ultra SOP HSB59	
	Squamous cell differentiation	CK 5/6	
	Glandular and transitional epithelial cells	CK7	
	Gastric and intestinal epithelial cells	CK20	
	Ewings sarcoma	Ewing's (CD99)	
	Epithelial cells	EMA	
	Estrogen receptor	ER	
	Pituitary hormone	FSH	
	Transcription factor for primary carcinomas (e.g. breast & bladder)	GATA-3	
	Astrocytic protein	GFAP	
	Pituitary hormone	GH	
	Melanocytes	HMB45	
	Isocitrate dehydrogenase 1	IDH1	
	Atypical teratoid rhabdoid tumours	INI 1a	
	Proliferating cells	Ki67	
	Lymphoid	LCA	
	Pituitary hormone	LH	



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<p>HUMAN BODY FLUIDS AND TISSUES (cont'd)</p> <p>Formalin fixed paraffin embedded tissue (FFPE Tissue and muscle) unless otherwise stated: (cont'd)</p>	<p><u>IMMUNOHISTOCHEMISTRY</u> (cont'd)</p> <p><u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis</u> (cont'd)</p> <p>Neuroendocrine marker</p> <p>Melanoma, glial cells</p> <p>Steroidogenic factor 1</p> <p>Muscle derived actin</p> <p>Solitary fibrous tumour</p> <p>Tangles in neurones</p> <p>DNA binding protein for frontotemoral lobar degeneration</p> <p>T-Pit antigen in pituitary-derived tumours</p> <p>Pituitary hormone</p> <p>Lung and thyroid</p> <p>Inclusions in neurodegenerative disease</p> <p>T cells in mantle zone</p> <p>T cells</p> <p>Macrophages</p> <p>B cells-lymphoma</p> <p>Smooth and striated muscle</p> <p>Mesenchymal cells</p>	<p>Automated immunohistochemical staining methods using Roche Ventana Benchmark Ultra SOP HSB59</p> <p>Synaptophysin</p> <p>S100</p> <p>SF1</p> <p>Smooth Muscle Actin</p> <p>STAT6</p> <p>TAU</p> <p>TDP43</p> <p>T-PIT</p> <p>TSH</p> <p>TTF-1</p> <p>Ubiquitin</p> <p>CD3</p> <p>CD4 & CD8</p> <p>CD68</p> <p>L26</p> <p>Desmin</p> <p>Vimentin</p>	<p>A</p>



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HUMAN BODY FLUIDS AND TISSUES (cont'd)	<u>IMMUNOHISTOCHEMISTRY</u> (cont'd) <u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis</u> (cont'd)	Automated immunohistochemical staining methods using Roche Ventana Benchmark Ultra SOP HSB59	A
Frozen sections of muscle	Membrane attack complex	C5b-9	
	T cells	CD3	
	T-helper cells	CD4	
	Cytotoxic/Suppressor T cells	CD8	
	B cells	CD20	
	Macrophages / monocytes	CD68	
	Localisation of muscle protein	Dysferlin	
	Localisation of muscle protein	Dystrophin 1	
	Localisation of muscle protein	Dystrophin 2	
	Localisation of muscle protein	Dystrophin 3	
	Localisation of muscle protein	Emerin	
	B cells	HLA-1	
	Glycoproteins for Muscular Dystrophy	Laminin B1	
	Glycoproteins for Muscular Dystrophy	Laminin B2	
	Laminin α -2 chain	Merosin	
	Type IIa & IIb muscle fibres	Fast Myosin	
	Type I muscle fibres	Slow Myosin	



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HUMAN BODY FLUIDS AND TISSUES	<u>CYTOLOGY</u> <u>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</u>	Macroscopic and Microscopic examination using in house documented procedures based on equipment manuals and standard methods as specified below: SOP HSCY1 by manual staining method using Tinctorial stain with haematoxylin and eosin	A
CSF		Cytospin 4 SOP HSCY13 by manual staining method using Tinctorial stain with haematoxylin and eosin	A
Muscle biopsy specimens, Peripheral Nerve biopsy specimens and Tumour biopsy specimens – Resin sections	<u>Electron Microscopy Service</u>	<u>Preparation of sample</u> SOP HSEM1 Preparation and processing of specimens	A
Resin-embedded tissue		SOP HSEM2 Making glass knives for cutting EM specimens SOP HSEM3 Ultramicrotomy sample preparation for Transmission electron microscopy using Leica UC7 Ultramicrotome	
Resin-embedded tissue: Muscle biopsy specimens, Peripheral Nerve biopsy specimens and Tumour biopsy specimens	Examination of tissues to identify or exclude ultrastructural morphological abnormalities for the purpose of diagnosis.	<u>Ultrastructural examination</u> SOP HSEM5 Electron microscopy Nanosprint 12 Digital Camera and software	A
END			