

Schedule of Accreditation

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United Kingdom Accreditation Service

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

 Accredited to ISO 15189:2012	Oxford University Hospitals NHS Foundation Trust	
	Issue No: 004 Issue date: 09 February 2021	
	Neuropathology and Ocular Pathology Department Level 1, West Wing John Radcliffe Hospital Headley Way Headington Oxford	Contact: Hannah Keyser Tel: +44 (0) 1865 231537 Fax: +44 (0) 1865 231157 E-Mail: Hannah.Keyser@ouh.nhs.uk Website: ouh.nhs.uk/services/departments/neurosciences/neuropathology
Testing performed at the above address only		

Site activities performed at location listed above:

Location details		Activity
Address Neuropathology and Ocular Pathology Department Level 1, West Wing John Radcliffe Hospital Headley Way Headington Oxford OX3 9DU	Local contact Dr Monika Hofer Tel: +44 (0)1865 234904 Fax: +44 (0)1865 231157 Email monika.hofer@ouh.nhs.uk	Histopathology Special stains Immunohistochemistry Diagnostic cytology (non-gynae)



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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>CNS (tumour/non-tumour) Ophthalmic biopsies Post mortem samples/organs (brain/cord/non-CNS) Muscle Biopsies Nerve biopsies</p> <p>Fresh brain tissue</p> <p>Fresh tissue</p>	<p><u>Neuropathological examination activities for the purposes of clinical diagnosis</u></p> <p>Examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p>Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p> <p>Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Specimen Dissection: Specimen dissection: LSPEC 745 Post mortem dissection: LSPEC 608 Decalcification: LSPEC 31 Muscle sampling: LSPEBX 776 Fluid cytology: LSPEBX 848</p> <p>Fluid cytology: Thermo Shandon Cytospin: MEQU 109</p> <p>Tissue Processing: Thermo-Shandon AS Excelsior Tissue Processor's (x3): MEQU 888</p> <p>Tissue Embedding: Surgipath PEC 3002 Tissue Embedder with dispenser and hotplate: LSPEC 598</p> <p>Intra-operative smears: manual preparation and manual/automated staining:</p> <p>Manual Haematoxylin and eosin (LSPEC 131)</p> <p>Manual Methylene blue (LSPEC 131)</p> <p>Cryotomy: Thermo Cryostat (x2) FSE & HM 525 NX</p> <p>Automated Haematoxylin and eosin (MQUA 735)</p> <p>Frozen sections (excluding muscles): LSPEC 857</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin Fixed Paraffin Wax blocks of processed tissue</p> <p>Formalin fixed paraffin embedded (FFPE) sections on glass slides</p> <p>FFPE slides (Formalin fixed paraffin embedded)</p>	<p><u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p>Routine morphological staining for the detection of basophilic and eosinophilic structures</p> <p><u>Special stains for the detection of:</u></p> <p>Tissue architecture and nuclear detail</p> <p>Mucins</p> <p>Amyloid</p> <p>Nissl substance</p> <p>Elastic fibres</p> <p>Gram positive and negative organisms</p> <p>Fungi</p> <p>Myelin sheaths (CNS)</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Microtomy: Leica Rotary microtomes</p> <ol style="list-style-type: none"> 1) Leica Histocore Biocut 2) Leica RM 2235 3) Leica RM 2235 <p>Tissue Sectioning: LSPEC 389</p> <p>Manual H&E staining using procedure: LSS 68</p> <p>H&E staining using Linistain automated stainer and procedure: MQUA 735</p> <p>Manual staining for the following methods:</p> <p>Methylene blue: LSPEC 131</p> <p>Alcian blue: LSS 246 Alcian blue/Periodic Acid Schiff (PAS): LSS 247</p> <p>Congo Red: LSS 250</p> <p>Cresyl violet: LSS 251</p> <p>Millers Elastic van Gieson: LSS 255</p> <p>Gram-Twort: LSS 257</p> <p>Grocott Hexamine Silver: LSS 259</p> <p>Luxol fast blue/cresyl violet: LSS 261</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin fixed paraffin embedded (FFPE) sections on glass slides (cont'd)</p>	<p><u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Special staining for the identification of: (cont'd)</u></p> <p>Muscle/connective tissue and stromal deposits in certain corneal dystrophies</p> <p>Connective tissue/fibrin deposition</p> <p>Glycogen / fungi / other periodate reactive carbohydrates</p> <p>Glycogen demonstration</p> <p>Anterior pituitary acidophil/basophil cells</p> <p>Ferric salts demonstration</p> <p>Reticulin fibres</p> <p>Muscle/connective tissue</p> <p>Myelin (PNS)</p> <p>Calcium salts</p> <p>Acid fast bacilli</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Manual staining for the following methods: (cont'd)</p> <p>Goldner's Masson Trichrome: LSS 255</p> <p>Mendrum's MSB method: LSS 260</p> <p>Periodic acid Schiff: LSS 270</p> <p>Diastase PAS: LSS 273</p> <p>PAS/orange G: LSS 271</p> <p>Perl's Prussian blue: LSS 274</p> <p>Gordon & Sweet's Reticulin: LSS 256</p> <p>Sirius red/picric acid: LSS 276</p> <p>Page's solochrome cyanine: LSS 268</p> <p>von Kossa: LSS 278</p> <p>Ziehl-Neelsen: LSS 279</p>



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Fresh frozen muscle tissue sections on glass slides	<u>Special staining for the identification of:</u> Lysosomal acid phosphatase Cytochrome oxidase Cytochrome oxidase and succinate dehydrogenase Muscle architecture NADH-tetrazolium reductase Neutral lipid in muscle cells Glycogen and muscle basement membranes Glycogen and muscle basement membranes Phosphorylase Succinate dehydrogenase	Manual staining using listed procedures: Acid phosphatase: LSPEBX 796 Cytochrome oxidase: LSPEBX 832 Cytochrome oxidase /Succinate dehydrogenase: LSPEBX 832 Gomori's Trichrome: LSPEBX 790 NADH: LSPEBX 830 Oil Red O: LSPEBX 819 PAS LSPEBX 825 PAS/Diastase: LSPEBX 825 Phosphorylase: LSPEBX 835 SDH: LSPEBX 831
Formalin fixed paraffin embedded (FFPE) sections on glass slides	<u>Immunohistochemistry for the identification of:</u> Adrenocorticotrophic hormone Alpha-synuclein positive inclusion bodies Phospho tau detection (neurodegeneration) Presence/absence nuclear expression (glioma) Expression of BAF-47	Manual staining using Dako Envision Detection Kit or Novolink detection kit (LIMM 2) using antibodies to: ACTH Alpha synuclein AT8 ATRX BAF47 (INI1)



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HUMAN BODY TISSUE AND FLUIDS (cont'd) Formalin fixed paraffin embedded (FFPE) sections on glass slides (cont'd)	<u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u> <u>Immunohistochemistry for the identification of: (cont'd)</u> Amyloid plaques Amyloid precursor protein CK7/8 identification (epithelial cells, metastases, pituitaries) Antigen on T lymphocytes Endothelial cells To aid classification of B cell lymphomas Protein in epithelial cells Muscle cells Follicle stimulating hormone Glial Fibrillary Acidic Protein Growth hormone Melanomas Gliomas For identifying B cells Leukocyte common antigen Leutinizing hormone	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified: Manual staining using Dako Envision Detection Kit or Novolink detection kit (LIMM 2) using antibodies to: Beta A4 Beta APP CAM 5.2 CD3 CD31 CD79a EMA D33 (desmin) FSH GFAP GH HMB45 IDH-1 L26 (CD20) LCA LH



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HUMAN BODY TISSUE AND FLUIDS (cont'd)	<u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u>	In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:
Formalin fixed paraffin embedded (FFPE) sections on glass slides (cont'd)	<u>Immunohistochemistry for the identification of: (cont'd)</u>	Manual staining using Dako Envision Detection Kit or Novolink detection kit (LIMM 2) using antibodies to:
	Pan-cytokeratin marker	MNF-116
	Marker for cells in cycle (surrogate for proliferation)	MIB-1
	Neurofilament	NF-L
	Myelin ProteoLipid Protein	PLP
	P53 expression	PG53
	Macrophages and mononuclear cells	PGM-1
	Generic screen for protein aggregates	P62
	Prolactin hormone	PRL
	Endothelial marker	QBend 10
	Cells expressing S100 (including glial)	S100
	Smooth muscle actin	SMA
	Cells producing synaptophysin	SYN
	Mesenchymal intermediate filament	Vimentin
	Used for neurodegeneration	TDP-43
	Thyroid stimulating hormone	TSH
	Neuronal cell marker	NeuN



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Formalin fixed paraffin embedded (FFPE) sections on glass slides (cont'd)</p> <p>Fresh frozen muscle tissue sections on glass slides</p>	<p><u>Neuropathological examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Immunohistochemistry for the identification of: (cont'd)</u></p> <p><u>Muscle immunohistochemistry for the identification of:</u></p> <p>Detection of type 1 (slow fibres) and type 2 (fast fibres) to include:</p> <p>Sub-typing fibres using immuno markers MHC-Fast, MHC-Slow, MHC-neonatal and MHC-developmental and procedure</p> <p>Inflammatory myopathies for the detection of inflammatory cells.</p> <p>Membrane panel for the detection of muscular dystrophies to include Xp21 muscular dystrophy (dystrophinopathy) and merosin deficient congenital muscular dystrophy)</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified:</p> <p>Manual staining using Dako Envision Detection Kit or Novolink detection kit (LIMM 2) using antibodies to:</p> <p>Manual immunohistochemical technique using Dako Envision Detection Kit (LSPEBX 837) using antibodies to:</p> <p>Myosin fast (MHC-F) Myosin slow (MHC-S) Myosin developmental (MHC-D) Myosin neonatal (MHC-N) NCAM</p> <p>C5b9 P62 (+/-) PGM-1 LCA Alpha-sarcoglycan</p> <p>Dystrophin-1 Dystrophin-2 Dystrophin-3 Beta-dystroglycan Beta-sarcoglycan Gamma-sarcoglycan Utrophin Merosin (laminin alpha2) Caveolin 3</p> <p>Novolink Detection Kit: LSPEBX 837</p> <p>Alpha-dystroglycan</p>



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<p>HUMAN BODY TISSUE AND FLUIDS (cont'd)</p> <p>Fresh CSF & tumour/CNS fluid samples</p> <p>Fixed nerve tissue</p> <p>Slides prepared as above</p>	<p><u>Neuropathological examination activities for the purposes of clinical diagnosis</u></p> <p><u>Muscle immunohistochemistry for the identification of: (cont'd)</u></p> <p>Detection of neoplastic cells</p> <p>Teased nerve fibres to assess their axons and myelin</p> <p>Morphological assessment and interpretation/diagnosis</p>	<p>In-house documented procedures using manual methods or analysers in conjunction with manufacturers' instructions as specified</p> <p>CSF preparation and manual MGG staining: LSPEBX 848</p> <p>Manual method</p> <p>Tease preparation: LSPEBX 98</p> <p>Microscope - Dissection microscope (Motic SMZ-171 binocular)</p> <p>Interpretive microscopy: Microscopes: Diagnostic brightfield microscopes LREP 75</p> <p>Key reporting procedures: Surgical biopsies LREP 75 Muscle biopsies: LREP 77 CSF & CNS fluid LREP 82 Notification of local cancer registry: LREP 86</p>
END		