

Schedule of Accreditation

issued by

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: 007 Issue date: 14 October 2024	
	Neuropathology and Ocular Pathology Department Level 1, West Wing John Radcliffe Hospital Headley Way Headington Oxford	Contact: Hannah Keyser Tel: +44 (0) 1865 231537 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 Hannah Keyser Tel: +44 (0)1865 231537 Email hannah.keyser@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><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>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: Epredia Excelsior AS tissue processors (x3): MEQU 888</p> <p>Tissue Embedding: Epredia Histostar embedder – LSPEC 598</p>
Fresh brain tissue	Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<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>
Fresh tissue	Intraoperative examination of tissues in order to identify or exclude morphological and cytological abnormalities for the purpose of diagnosis	<p>Cryotomy: HM 525 NX</p> <p>Automated Haematoxylin and eosin – Leica ST5010 H&E Autostainer & Leica Robotic Cover slipper CV5030 – MEQU 89</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 1) Leica Histocore Biocut 2) Leica RM 2235 3) Leica RM 2235 Tissue Sectioning: LSPEC 389</p> <p>Manual H&E staining using procedure: LSS 68</p> <p>H&E staining using – Leica ST5010 H&E Autostainer & Leica Robotic Cover slipper CV5030 –and procedure: MEQU 89.</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 BCAT-1 expressing tumour cells	Manual staining using Dako Envision Detection Kit or Novolink detection kit (LIMM 2) using antibodies to: ACTH Alpha synuclein AT8 ATRX BAF47 (INI1) BCAT-1



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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>Immunohistochemistry for the identification of: (cont'd)</u></p> <p>Amyloid plaques</p> <p>Amyloid precursor protein</p> <p>CK7/8 identification (epithelial cells, metastases, pituitaries)</p> <p>Antigen on T lymphocytes</p> <p>Endothelial cells</p> <p>To aid classification of B cell lymphomas</p> <p>Protein in epithelial cells</p> <p>Muscle cells</p> <p>Follicle stimulating hormone</p> <p>Medulloblastoma subtyping</p> <p>Glial Fibrillary Acidic Protein</p> <p>Growth hormone</p> <p>Histone H3 K27M mutant</p> <p>Histone wildtype</p> <p>Melanomas</p> <p>Gliomas</p> <p>For identifying B cells</p> <p>Leukocyte common antigen</p> <p>Leutinizing hormone</p> <p>Microtubule associated protein</p> <p>Melanoma-specific antigen</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>Beta A4</p> <p>Beta APP</p> <p>CAM 5.2</p> <p>CD3</p> <p>CD31</p> <p>CD79a</p> <p>EMA</p> <p>D33 (desmin)</p> <p>FSH</p> <p>GAB-1</p> <p>GFAP</p> <p>GH</p> <p>H3K27M</p> <p>H3K27me3</p> <p>HMB45</p> <p>IDH-1</p> <p>L26 (CD20)</p> <p>LCA</p> <p>LH</p> <p>MAP-2</p> <p>MELAN-A</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>Immunohistochemistry for the identification of: (cont'd)</u></p> <p>Pan-cytokeratin marker</p> <p>Marker for cells in cycle (surrogate for proliferation)</p> <p>Neurofilament</p> <p>Oligodendrocyte transcription factor 2 recombinant protein</p> <p>Pituitary-specific positive transcription factor 1</p> <p>Myelin ProteoLipid Protein</p> <p>P53 expression</p> <p>Macrophages and mononuclear cells</p> <p>Generic screen for protein aggregates</p> <p>Prolactin hormone</p> <p>TAR DNA binding protein</p> <p>Endothelial marker</p> <p>Cells expressing S100 (including glial)</p> <p>Pituitary transcription factor marker</p> <p>Smooth muscle actin</p> <p>Cells producing synaptophysin</p> <p>Mesenchymal intermediate filament</p> <p>Thyroid stimulating hormone</p> <p>Pituitary transcription factor marker</p> <p>Neuronal cell marker</p> <p>Medulloblastoma subtyping</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>MNF-116</p> <p>MIB-1</p> <p>NF-L</p> <p>Olig-2</p> <p>PIT-1</p> <p>PLP</p> <p>PG53</p> <p>PGM-1 / CD68</p> <p>P62</p> <p>PRL</p> <p>pTDP-43</p> <p>QBend 10</p> <p>S100</p> <p>SF-1</p> <p>SMA</p> <p>SYN</p> <p>Vimentin</p> <p>TSH</p> <p>T-PIT</p> <p>NeuN</p> <p>YAP-1</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>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 or Leica Novolink 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 CD20 CD45 MHCI MHCII</p> <p>Dystrophin-1 Dystrophin-2 Dystrophin-3 Alpha dystroglycan Beta-dystroglycan Beta-sarcoglycan Gamma-sarcoglycan Utrophin Merosin (laminin alpha2) Caveolin 3 Laminin B1 Laminin B2 Myotilin NOS-1 Spectrin Dysferlin Emerin</p>



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	<u>Muscle immunohistochemistry for the identification of: (cont'd)</u>	
Fresh CSF & tumour/CNS fluid samples	Detection of neoplastic cells	CSF preparation and manual MGG staining: LSPEBX 848
Fixed nerve tissue	Teased nerve fibres to assess their axons and myelin	Manual method Tease preparation: LSPEBX 98 Microscope - Dissection microscope (Motic SMZ-171 binocular)
Slides prepared as above	Morphological assessment and interpretation/diagnosis	Interpretive microscopy: Microscopes: Diagnostic brightfield microscopes LREP 75 Key reporting procedures: Surgical biopsies LREP 75 Muscle biopsies: LREP 77 CSF & CNS fluid LREP 82 Notification of local cancer registry: LREP 86
END		