


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 15189:2012</p> | <p>The Walton Centre NHS Foundation Trust</p> <p>Issue No: 007 Issue date: 13 August 2020</p> | |
| | <p>Lower Lane Fazakerley Liverpool Merseyside L9 7LJ</p> | <p>Contact: Wallis Hayes Tel: +44 (0) 151 529 5495/5499 Fax: +44 (0) 151 529 5498 E-Mail: wallis.hayes@thewaltoncentre.nhs.uk 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> Biochemical examination activities for the purposes of clinical diagnosis: | 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 TQD with reference to SOPs BSM9 & BSM10 and: | A |
| | Lamotrigine | SOP BSM8 | |
| | Total phenytoin | SOP BSM8 | |
| | Free phenytoin | SOP BSM4 | |
| | Carbamazepine | SOP BSM8 | |
| | Carbamazepine epoxide | SOP BSM8 | |
| | Phenobarbital | SOP BSM8 | |
| | Valproate | SOP BSM8 | |
| | Midazolam | SOP BSM17 | |
| | Pregabalin | SOP BSM12 | |
| | Levetiracetam | SOP BSM11 | |
| | Topiramate | SOP BSM13 | |
| Serum & CSF | Quantification of: Total protein | Roche Cobas c311 SOP BSR20 | A |
| Serum, plasma & CSF | Glucose | | |
| Serum | Albumin | | |
| CSF | Lactate | | |



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| HUMAN BODY FLUIDS | <u>Biochemistry</u> (cont'd) | | | |
| | Biochemical examination activities for the purposes of clinical diagnosis: (cont'd) | In house documented procedures based on equipment manuals and standard methods as specified below: | | |
| | Quantification of: | Siemens BN Prospec SOP BSR4 | A | |
| | CSF | Albumin | | |
| | Serum & CSF | IgG | | |
| | Serum | IgA | | |
| | Serum | IgM | | |
| | Fluid & serum | Beta trace protein | Siemens BN Prospec SOP BSR22 | A |
| | Serum | | Gel electrophoresis using Helena SAS-1plus & SAS-2 equipment with reference to SOPs BSP5 & BSP7 and the following: | A |
| | | Detection of normal and abnormal protein electrophoretic patterns | SOP BSP2 | |
| | Detection of kappa & lambda light chains | SOP BSP4 | | |
| Fluid & serum | Quantification of Beta-2-transferrin | Gel electrophoresis and immunochemical detection using Helena SAS-1plus SOP BSP1 | A | |
| CSF & serum | Detection of oligoclonal bands | 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 | |



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| HUMAN BODY FLUIDS | Biochemical examination activities for the purposes of clinical diagnosis: (cont'd) | In house documented procedures based on equipment manuals and standard methods as specified below: | |
| CSF | Detection of bilirubin | By spectrophotometry using Analytik Jena SPECORD 210 Plus UV-Visible Spectrophotometer SOP BSR2 | A |
| HUMAN BODY FLUIDS | <u>Immunology</u> Immunological examination activities for the purposes of clinical diagnosis: | In house documented procedures based on equipment manuals and standard methods as specified below: | |
| | Quantification of: | Radioimmunoassay using Wizard Gamma Counter with reference to: | A |
| Serum | Antibodies to voltage gated potassium channels | SOP IS17 | |
| Serum | Antibodies to voltage gated calcium channels | SOP IS16 | |
| Serum | Antibodies to acetyl choline receptor | SOP IS6 | |
| Serum | Antibodies to muscle specific kinase | SOP IS28 | |
| CSF & Serum | Paraneoplastic antibodies: Hu, Yo, Ri, CV2, amphiphysin, Ma1, Ma2, Tr, SOX-1, GAD65, Zic4, Titin, Recoverin, Protein Kinase C Gamma | Immunohistochemistry screen followed by recombinant immunoblot with reference to: PNS14 kit SOPs IS14, IS2 & IS3 | A |
| Serum | Antibodies to Amphiphysin, GAD65 | Ravo SPS Blot kit SOP IS18 & IS14 | |
| CSF | Antibodies to Amphiphysin, GAD65 | PNS14 kit SOP IS18 & IS14 | |



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| HUMAN BODY FLUIDS | Immunology | In house documented procedures based on equipment manuals and standard methods as specified below: | |
| Serum | Immunological examination activities for the purposes of clinical diagnosis: | ELISA using Biochrom EZ Read LED Microplate reader | A |
| Serum | Detection and quantification of: Glycolipid antibodies (GM1, GQ1b, GT1b, GD1a) | In-house ELISA method SOPs IS20, IS29 & IS39 | |
| Serum & CSF | Qualitative detection of: Antibodies to myelin associated glycoprotein | Buhlman anti-MAG ELISA kit SOP IS24 & IS39 | |
| Serum & CSF | Quantification of: NMDA Receptor Antibodies | Immunofluorescence using the EUROStar III plus Euroimmune microscope with reference to: SOP IS32 | A |
| Serum & CSF | Antibodies to LGI1 and CASPR2 | SOP IS35 | |
| Serum | Antibodies to IgLON5 | SOP IS36 | |
| Serum & CSF | Antibodies to AMPA1, AMPA2 & GABA-B | SOP IS37 | |



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| Fixed, fresh and frozen tissue; neuropathology tissue samples (brain biopsies, skull bone, spinal biopsies, temporal artery, nerve & muscle) | <p><u>Neuropathology</u></p> <p>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</p> | <p>Macroscopic and Microscopic examination using in house documented procedures based on equipment manuals and standard methods as specified below:</p> <p><u>Specimen dissection & tissue processing</u></p> <p>Documented in-house procedure HSB6 and HSB43 in conjunction with manufacturers instructions using Leica ASP300 and Leica ASP6025</p> <p><u>Tissue Embedding</u></p> <p>Documented in-house procedure HSB10 in conjunction with manufacturers instructions using Leica EG1160b</p> <p><u>Tissue Sectioning</u></p> <p>Documented in-house procedure HSB12 to HSB17</p> | A |
| Intraoperative Quick Smears/Frozen Sections | <p>Nuclei and other cellular components</p> <p>Metachromatic substances</p> | <p>SOP HSIN3 by manual H&E stain</p> <p>SOP HSIN3 by manual Toluidine Blue stain</p> | A A |
| Serial Stereotactic Preparations | Nuclei and other cellular components | SOP HSIN6 – Serial stereotactic preparation and reporting H&E Stain | B |



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| | Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis | Macroscopic and Microscopic examination using in house documented procedures based on equipment manuals and standard methods as specified below: | A |
| | Special stains | Documented in-house procedure by manual staining | A |
| | Detection of: | | |
| | Acid mucins | SOP HSS1 – Alcian Blue | |
| | Acid and neutral mucins | SOP HSS2 – Alcian Blue / PAS Technique | |
| | Axons | SOP HSS3 – Silver Bielschowskys | |
| | Amyloid | SOP HSS4 – Congo Red (Higmans) | |
| | Neurones | SOP HSS5 - Cresyl Violet Acetate | |
| | Elastin fibres | SOP HSS6 – Elastic Van Gieson | |
| Formalin fixed paraffin embedded tissue (FFPE Tissue) unless otherwise stated: | Gram positive or negative bacteria | SOP HSS9 – Gram stain | |
| | Special stains (cont'd) | Documented in-house procedure by manual staining | A |
| | Detection of: | | |
| | Fungi | SOP HSS8 – Grocott Hexamine Silver technique | |
| | Basophilic and eosinophilic structures | SOP HSS11 – Haematoxylin and Eosin | |
| | Myelin and other CNS structures | SOP HSS12 – Modified Luxol Fast Blue | |
| Formalin fixed paraffin embedded tissue (FFPE Tissue) unless otherwise stated: (cont'd) | Myelin & CNS structures; basophilic & eosinophilic structures | SOP HSS32 - Luxol Fast Blue / Haematoxylin and Eosin | |



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| <p>Fixed, fresh and frozen tissue; neuropathology tissue samples (brain biopsies, skull bone, spinal biopsies, temporal artery, nerve & muscle)</p> <p>Formalin fixed paraffin embedded tissue (FFPE Tissue) unless otherwise stated: (cont'd)</p> | <p><u>Neuropathology</u></p> <p>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis</p> | <p>Macroscopic and Microscopic examination using in house documented procedures based on equipment manuals and standard methods as specified below:</p> | A |
| | <p>Special stains (cont'd)</p> <p>Detection of:</p> | <p>Documented in-house procedure by manual staining</p> | A |
| | <p>Connective tissue</p> | <p>SOP HSS16 – Masson Trichrome Technique</p> | |
| | <p>Fibrin</p> | <p>SOP HSS17 – MSB technique</p> | |
| | <p>Glycogen and other periodase-reactive carbohydrates</p> | <p>SOP HSS20 – Periodic Acid Schiff</p> | |
| | <p>Ferric iron salts</p> | <p>SOP HSS21 – Perls Prussian Blue</p> | |
| | <p>Reticulin</p> | <p>SOP HSS23 - Reticulin method (Gordon & Sweets)</p> | |
| | <p>Myelin</p> | <p>SOP HSS24 – Solochrome Cyanine</p> | |
| | <p>Metachromatic substances</p> | <p>SOP HSS25 – Toluidine Blue (Wolman 1971)</p> | |
| | <p>Connective tissue</p> <p>TB</p> | <p>SOP HSS29 – Van Gieson</p> <p>SOP HSS26 – Ziehl Neelsen stain</p> | |



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| Muscle biopsy frozen sections | Muscle Biopsy service | <u>Preparation of sample</u> HSM1 – receipt and preparation of muscle tissue HMS3 – Frozen Section Protocol – Muscle biopsies Enzyme histochemistry using: SOP HSM12 - Acid Phosphatase | A |
| | Demonstration of lipofushin | SOP HSM13 by– Myofibrillar ATPase | |
| | Fibre typing | SOP HSM11 – Cytochrome oxidase | |
| | Mitochondrial complexes | SOP HSM8 by Muscle Tinctorial using Gomori Trichrome | |
| | Mitochondrial complexes | SOP HSM5 - Haematoxylin and Eosin | |
| | Basophilic and eosinophilic structures | Documented in-house procedure by manual staining | |
| | Special stain techniques for detection of: | SOP HSM15 – Myodenylate deaminase | |
| | Myodenylate activity | SOP HSM7 – Oil Red O | |
| | Lipids | SOP HSM9 - NADH | |
| | NADH | SOP HSM16 – Phosphorylase | |
| | Phosphorylase activity | SOP HSM6 – Periodic Acid Schiff | |
| | PAS +ve substances | SOP HSM14 - Phosphofructokinase | |
| | Phosphofructokinase | SOP HSM10 – Succinic dehydrogenase | |
| | SDH activity | COX / SDH (SOP HSM17) | |
| | Cytochrome oxidase / SDH activity | | |



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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>Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis</p> <p>Neuro protein</p> <p>Pituitary hormone</p> <p>Alzheimer Precursor Protein</p> <p>Neuro protein</p> <p><u>Gliomas</u></p> <p>Epithelial cells – metastatic disease</p> <p>CD1a positive cells</p> <p>Leukaemia antigen, clear cell renal carcinomas</p> <p>Reed Sternberg cells, hodgkins</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>Squamous cell differentiation</p> | <p>Automated immunohistochemical staining methods using Ventana Benchmark Ultra SOP HS177</p> <p>Alpha synuclein</p> <p>ACTH</p> <p>APP</p> <p>β-Amyloid (BAM)</p> <p>ATRX</p> <p>CAM</p> <p>CD1a</p> <p>CD10</p> <p>CD30</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>CK 5/6</p> | <p>A</p> |



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| Formalin fixed paraffin embedded tissue (FFPE Tissue and muscle) unless otherwise stated: | <u>Immunohistochemistry</u> | | A |
| | Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis | Automated immunohistochemical staining methods using Ventana Benchmark Ultra SOP HS177 | |
| | 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 | |
| | Astrocytic protein | GFAP | |
| | Pituitary hormone | GH | |
| | Germ cell tumours | HCG | |
| | Melanocytes | HMB45 | |
| | Isocitrate dehydrogenase 1 | IDH1 | |
| | Atypical teratoid rhabdoid tumours | INI 1a | |
| | Proliferating cells | Ki67 | |
| | Lymphoid | LCA | |
| | Pituitary hormone | LH | |
| | Diffuse midline gliomas | H3K27M | |
| | Melanocytes | Melan A | |
| | Epithelial Cells | MNF116 | |
| Myelin Basic Protein | MBP | | |



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| Formalin fixed paraffin embedded tissue (FFPE Tissue and muscle) unless otherwise stated: | <u>Immunocytochemistry</u> Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis Neuronal nuclei protein Axons Germ cell tumours Progesterone receptor Pituitary hormone Prostate neoplasm Tumour suppression Neuroendocrine marker Melanoma, glial cells Muscle derived actin Solitary fibrous tumour Tangles in neurones Thyroid Pituitary hormone Lung and thyroid Inclusions in neurodegenerative disease T cells in mantle zone T cells Macrophages B cells-lymphoma | Automated immunohistochemical staining methods using Ventana Benchmark Ultra SOP HS177 NeuN NFP PLAP PR Prolactin PSA P53 Synaptophysin S100 Smooth Muscle Actin STAT6 TAU Thyroglobulin TSH TTF-1 Ubiquitin CD3 CD4 & CD8 CD68 L26 | A |



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| Formalin fixed paraffin embedded tissue (FFPE Tissue and frozen muscle) unless otherwise stated: | Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis | Automated immunohistochemical staining methods using Ventana Benchmark Ultra SOP HS177 | A |
| | Smooth and striated muscle | Desmin | |
| Formalin fixed paraffin embedded tissue (FFPE frozen muscle only) unless otherwise stated: | Mesenchymal cells | Vimentin | A |
| | Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of clinical diagnosis | Automated immunohistochemical staining methods using Ventana Benchmark Ultra SOP HS177 | |
| | Membrane attack complex | C5b-9 | |
| | 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 | |
| | Compliment protein | HLA-DR | |
| | Inclusion bodies | P62 | |
| | Limb Girdle Muscular Dystrophy | Alpha-Sarcoglycan Beta-Sarcoglycan Delta-Sarcoglycan Gamma-Sarcoglycan | |
| | Neuronal marker | Utrophin | |
| Muscle membrane integrity | Spectrin | | |



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| HUMAN BODY FLUIDS AND TISSUES | <u>Cytology</u> | | |
| CSF | Examination of tissues to identify or exclude morphological and cytological abnormalities for the purposes of diagnosis | SOP HSCY1 by manual staining method using Tinctorial stain with haematoxylin and eosin | A |
| FFPE | <u>Electron Microscopy Service</u> | <u>Preparation of sample</u> SOP HSEM1 Preparation and processing of specimens SOP HSEM2 Making glass knives for cutting EM specimens SOP HSEM3 Ultramicrotomy sample preparation for Transmission electron microscopy | A |
| 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 | A |
| END | | | |