


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>Accredited to ISO 15189:2022</b></p>	<h3>NHS Greater Glasgow and Clyde</h3> <p><b>Issue No: 011 Issue date: 11 February 2025</b></p>	
	<p><b>Department of Immunology and Neuroimmunology</b>  <b>Level 1B Laboratory Medicine Building</b>  <b>Queen Elizabeth University Hospital</b>  <b>1345 Govan Road</b>  <b>Glasgow</b>  <b>G51 4TF</b>  <b>United Kingdom</b></p>	<p><b>Contact: Carolyn Watt</b>  <b>Tel: +44 (0)141 3549024</b>  <b>E-Mail: Carolyn.Watt@nhs.scot</b>  <b>Website:</b>  <b>www.nhsggc.org.uk/ImmunologyNeuroimmunology</b></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS AND TISSUE	<u>Neuroimmunology activities for the purpose of clinical diagnosis</u>	In house documented procedures using-
Serum CSF	Oligoclonal bands	Multiphor 11, Electrophoresis system by IEF SOP;-LP_NI_8
Serum	Acetylcholine Receptor Antibodies	Perkin Elmer Gamma counter- RIA SOP;- LP_NI_18
Serum/Plasma	Anti Glycolipid antibodies (gangliosides) IgM and IgG <ul style="list-style-type: none"> <li>• GM1</li> <li>• GM2</li> <li>• GDIA</li> <li>• GDIB</li> <li>• GQIB</li> </ul>	SOP ;- LP_NI_1
Serum	Anti- neuronal antibodies screen (paraneoplastic)	by Werfen QuantaLYSER 3000 automated slide processor & indirect immunofluorescence microscopy LP_IIF_9 and LP_NI_2



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<p>HUMAN BODY FLUIDS AND TISSUE (cont'd)</p> <p>Serum (cont'd)</p> <p>Serum/Plasma/CSF</p>	<p><u>Neuroimmunology activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Anti-neuronal antibodies (confirmation)</p> <ul style="list-style-type: none"> <li>• Anti-Hu</li> <li>• Anti-Yo</li> <li>• Anti-Ri</li> <li>• Anti-CV2</li> <li>• Anti-MA2Ta</li> <li>• Anti-Amphiphysin</li> <li>• Anti-Sox1</li> <li>• Anti-Recoverin</li> <li>• Anti-Titin</li> </ul> <p>Detection of :</p> <p>Anti Glutamate receptor (type NMDA)</p> <p>Anti Voltage Gated Potassium channel associated proteins (VGKC)</p> <ul style="list-style-type: none"> <li>• LGI 1</li> <li>• CASPR 2</li> </ul> <p>Anti- Neuromyelitis Optica Spectrum Disorder antibodies(NMOSD)</p> <ul style="list-style-type: none"> <li>• Anti- Anti-Myelin Oligodendrocyte Glycoprotein abs (Anti-MOG)</li> <li>Anti- Aquaprin 4 abs (AQP4)</li> </ul>	<p>In house documented procedures using-</p> <p>Euroimmun Blotmaster Western Blot SOP ;- LP_NI_30</p> <p>IIFT Biochips- Indirect Immunofluorescence ; Using Euroimmun Sprinter SOP ; LP_G_3 LP_NI_27 Operation and Maintenance of IF Sprinter for detection of NMDA, VGCK and NMOSD.</p>



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Serum	Detection of:	Werfen QuantaLYSER 3000 and automated slide processor by Detected by Indirect Immunofluorescence Fluorescent Microscope LP_G_3 and acquisition, analysis and storage of digital image using the NOVA View automated fluorescence microscope LP_IFF_11
	Anti-Nuclear antibodies ( ANA)	LP_IIF_2
	ANA titres	LP_IIF_2
	Tissue Auto Antibodies ( AA)	LP_IIF_3
	Anti-Neutrophil Cytoplasmic Antibodies (ANCA)	LP_IIF_4
	IgA Endomysial,	LP_IIF_5
	Skin antibodies (Pemphigus and Pemphigoid)	LP_IIF_7
	Adrenal	LP_IIF_6
Crithidia	LP_IIF_8	



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HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Immunology activities for the purpose of clinical diagnosis</u> (cont'd)	
Serum	Detection of :	DS2 by ELISA
	Intrinsic Factor Antibodies ( IFA)	LP_ICHEM_1 LP_ICHEM_2
	<i>Haemophilus influenzae type b</i> (HiB)antibodies	LP_ICHEM_3
	Pneumococcal Capsular Polysaccharide (PCP) antibodies	LP_ICHEM_4
	Tetanus Toxoid IgG antibodies	LP_ICHEM_5
	Glutamic acid decarboxylase (GAD) autoantibodies	LP_ICHEM_6 Phadia 2500 by FEIA LP_IAUTO_6
	Anti-Glomerular basement membrane (GBM) antibodies	
	Anti-Myeloperoxidase (MPO) antibodies	
	Anti-Proteinase 3 (PR3) antibodies	
	IgA & IgG Anti-Tissue Transglutaminase (TTG) antibodies	
	dsDNA antibodies	
	Anti-Extractable Nuclear Antigen (ENA) antibodies: Screen	



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<p>HUMAN BODY FLUIDS AND TISSUE (cont'd)</p> <p>Serum</p>	<p><u>Immunology activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>ENA identity:</p> <ul style="list-style-type: none"> <li>• Ro52</li> <li>• Ro60</li> <li>• La</li> <li>• SmD</li> <li>• U1-RNP</li> <li>• Scl-70</li> <li>• Jo-1</li> <li>• Centromere B</li> <li>• Ribosomal P</li> </ul> <p>Anti-Cyclic Citrullinated Peptide (CCP) antibodies</p> <p>Total IgE</p> <p>Allergen Specific IgE (whole allergens):</p> <ul style="list-style-type: none"> <li>•Almond (f20)</li> <li>•Amoxicillin (c6)</li> <li>•Ampicilloyl (c5)</li> <li>•Apple (f49)</li> <li>•Aspergillus fumigatus (m3)</li> <li>•Avocado (f96)</li> <li>•Banana (f92)</li> <li>•Barley (f6)</li> <li>•Bee (honey) venom (i1)</li> <li>•Beef (f27)</li> <li>•Birch (silver) pollen (t3)</li> <li>•Black pepper (f280)</li> <li>•Brazil nut (f18)</li> <li>•Buckwheat(f11)</li> <li>•Cacao (f93)</li> <li>•Candida albicans (m5)</li> <li>•Carrot (f31)</li> <li>•Cashew nut (f202)</li> <li>•Cat epithelium&amp;dander (e1)</li> <li>•Cefaclor (c7)</li> <li>•Celery (f85)</li> <li>•Cheese, cheddar (f81)</li> <li>•Chick pea (f309)</li> <li>•Chicken (f83)</li> </ul>	<p>Phadia 2500 by FEIA LP_IAUTO_6</p>



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<p>HUMAN BODY FLUIDS AND TISSUE (cont'd)</p> <p>Serum</p>	<p><u>Immunology activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Allergen Specific IgE (whole allergens): (cont'd)</p> <ul style="list-style-type: none"> <li>•Chilli pepper (f279)</li> <li>•Chlorhexadine (c8)</li> <li>•Coconut (f36)</li> <li>•Cod (f3)</li> <li>•Coriander (f317)</li> <li>•Cow dander (e4)</li> <li>•Crab (f23)</li> <li>•Dog dander (e5)</li> <li>•Egg white (f1)</li> <li>•Egg yolk (f75)</li> <li>•Ethylene oxide (k78)</li> <li>•Feathers, caged bird mix (ex72): Budgiergar, Canary, Parakeet, Parrot, Finch feathers</li> <li>•Feathers, poultry mix (ex71): Goose, Chicken, Duck, Turkey feathers</li> <li>•Food mix (fx5): Egg white, Milk, Cod, Soybean, Peanut, Wheat</li> <li>•Formaldehyde/formalin (k80)</li> <li>•Garlic (f47)</li> <li>•Gelatin (c74)</li> <li>•Ginger (f270)</li> <li>•Grape (f259)</li> <li>•Grass pollen mix (gx3): Sweet vernal, Rye, Timothy, Cultivated rye, Velvet grass</li> <li>•Green pepper (f263)</li> <li>•Guinea pig epithelium (e6)</li> <li>•Hamster epithelium (e84)</li> <li>•Hazel nut (f17)</li> <li>•Horse dander (e3)</li> <li>•House dust mite (d1)</li> <li>•Kiwi fruit (f84)</li> <li>•Latex (k82)</li> <li>•Lemon (f208)</li> <li>•Lentil (f235)</li> <li>•Lupin (f335)</li> <li>•Maize (f8)</li> <li>•Mango (f91)</li> </ul>	<p>Phadia 2500 by FEIA LP_IAUTO_6</p>



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<p>HUMAN BODY FLUIDS AND TISSUE (cont'd)</p> <p>Serum</p>	<p><u>Immunology activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Allergen Specific IgE (whole allergens): (cont'd)</p> <ul style="list-style-type: none"> <li>•Melon (f87)</li> <li>•Milk (f2)</li> <li>•Mould mix (mx1): <i>Penicillium chrysogenum</i> (<i>P.notatum</i>), <i>Cladosporium herbarum</i>, <i>Aspergillus fumigatus</i>, <i>Alternaria alternata</i></li> <li>•Mouse epithelium,serum,urine (e88)</li> <li>•Mushroom (f212)</li> <li>•Mussel, blue (f37)</li> <li>•Mustard (f89)</li> <li>•Oat (f7)</li> <li>•Omega-5 gliadin (f416)</li> <li>•Onion (f48)</li> <li>•Orange (f33)</li> <li>•Oyster (f290)</li> <li>•Paprika / Sweet pepper (f218)</li> <li>•Pea (f12)</li> <li>•Peach (f95)</li> <li>•Peanut (f13)</li> <li>•Pear (f94)</li> <li>•Pecan (f201)</li> <li>•Penicilloyl G &amp; V (c1 &amp; c2)</li> <li>•Pine nut (f253)</li> <li>•Pineapple (f210)</li> <li>•Pistachio (f203)</li> <li>•Poppy seed (f224)</li> <li>•Pork (f26)</li> <li>•Potato (f35)</li> <li>•Rabbit epithelium (e82)</li> <li>•Rape seed (f316)</li> <li>•Raspberry (f343)</li> <li>•Rat epithelium,serum,urine (e87)</li> <li>•Rice (f9)</li> <li>•Rye (f5)</li> <li>•Salmon (f41)</li> <li>•Scallop (f338)</li> </ul>	<p>Phadia 2500 by FEIA LP_IAUTO_6</p>



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<p>HUMAN BODY FLUIDS AND TISSUE (cont'd)</p> <p>Serum</p>	<p><u>Immunology activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Detection of;</p> <p>Anti-Glomerular basement membrane (GBM) antibodies</p> <p>Anti-Myeloperoxidase (MPO) antibodies</p> <p>Anti-Proteinase 3 (PR3) antibodies</p> <p>Specific IgG antibodies:</p> <ul style="list-style-type: none"> <li>• Aspergillus precipitins</li> <li>• Avian precipitins (pigeon)</li> <li>• Farmers Lung serology (micropolysporia)</li> </ul> <p>Tryptase</p> <p>Quantification of serum Free Light Chains(Serum free kappa and lambda light chains)</p> <p>Quantification of C1 inhibitor</p> <p>Complement Function</p> <ul style="list-style-type: none"> <li>• CH100 (Classical Pathway)</li> <li>• AP100 (Alternative Pathway)</li> </ul> <p>C1 Inhibitor Function</p>	<p>LP_IAUTO_1, LP_IAUTO_2 and LP_IAUTO_3 Phadia 250 LP_IAUTO_4</p> <p>Optilite by turbidimetry</p> <p>LP_ICHEM_9</p> <p>LP_ICHEM_10</p> <p>Radial Immunodiffusion (RID) using SOPs: LP_ICHEM_11 Classical pathway, LP_ICHEM_12 Alternate Pathway</p> <p>Chromogenic assay using Thermo Multiskan FC Microplate Photometer and SOP: LP_ICHEM_15</p> <p>Immunophenotyping by BD Duet (Sample processor) and BD Lyric (Flow cytometry)</p>



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Whole Blood	Lymphocyte subset basic panel (CD45, CD3, CD4, CD8, CD16/CD56 and CD19)	LP_ICELL_1
Blood	Detection of Neutrophil Respiratory Burst by flow cytometry	Neutrophils stimulated with PMA and labelled with DHR, Fluorescent changes are assessed by flow cytometry using BD FACS Lyric Flow Cytometer.  SOP: LP_ICELL_3 Measurement of Neutrophil Respiratory Burst Activity by Flow Cytometry
Blood	Detection of autoimmune liver disease auto-antibodies: AMA-M2 M2-3E (BPO) Sp100 PML gp210 LKM-1 LC-1 SLA/LP Ro-52	Immunoblot using Euroimmun Blotmaster  SOP: LP_BLOT_1 Detection of autoimmune liver disease autoantibodies using the EUROBlotMaster
END		