


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>9713</p> <p>Accredited to ISO 15189:2012</p>	<h3>NHS Greater Glasgow and Clyde</h3> <p>Issue No: 006 Issue date: 1 February 2021</p>	
	<p>Department of Immunology and Neuroimmunology</p> <p>Level 1B Laboratory Medicine Building</p> <p>Queen Elizabeth University Hospital</p> <p>1345 Govan Road</p> <p>Glasgow</p> <p>G51 4TF</p> <p>United Kingdom</p>	<p>Contact: Carolyn Watt</p> <p>Tel: +44 (0)141 3549024</p> <p>E-Mail: Carolyn.Watt@ggc.scot.nhs.uk</p> <p>Website: <a href="http://www.nhsggc.org.uk/professional-support-sites/immunologyandneuroimmunology">www.nhsggc.org.uk/professional-support-sites/immunologyandneuroimmunology</a></p>
<p>Testing performed at the above address only</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	Anti Myelin Associated Glycoprotein	Perkin Elmer Victor plate reader by ELISA SOP ;- LP_NI_10
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><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>In house documented procedures using-</p> <p>Euroimmun Blotmaster Western Blot Axioplan Fluorescence Microscope SOP ; - LP_NI_30</p>
<p>Serum/Plasma/CSF</p>	<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> </ul> <p>Anti- Aquaprin 4 abs (AQP4)</p> <p><u>Immunology activities for the purpose of clinical diagnosis</u></p>	<p>IIFT Biochips- Indirect Immunofluorescence ; Using Euroimmun Sprinter LP_NI_27- Axioplan Fluorescence Microscope 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
	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	
HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Immunology activities for the purpose of clinical diagnosis (cont'd)</u>	
Serum	Detection of :-	DS2 by ELISA LP_ICHEM_1 LP_ICHEM_2
	Intrinsic Factor Antibodies ( IFA)	LP_ICHEM_2
	<i>Haemophilus influenzae type b</i> (HiB)antibodies	LP_ICHEM_3
	Pneumonococcal Capsular Polysaccharide (PCP) antibodies	LP_ICHEM_4
	Tetanus Toxoid IgG antibodies	LP_ICHEM_5
	Glutamic acid decarboxylase (GAD) autoantibodies	LP_ICHEM_6
	Anti-Myelin Associated Glycoprotein (MAG)	LP_NI_10



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	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	Phadia 2500 by FEIA LP_IAUTO_6
HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Immunology activities for the purpose of clinical diagnosis</u> (cont'd)  ENA identity: <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> Anti-Cyclic Citrullinated Peptide (CCP) antibodies  Total IgE	Phadia 2500 by FEIA LP_IAUTO_6



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	Allergen Specific IgE (whole allergens): <ul style="list-style-type: none"> <li>•Allspice (f339)</li> <li>•Almond (f20)</li> <li>•Amoxycillin (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>	
HUMAN BODY FLUIDS AND TISSUE (cont'd)	<u>Immunology activities for the purpose of clinical diagnosis (cont'd)</u>  Allergen Specific IgE (whole allergens): (cont'd)	Phadia 2500 by FEIA LP_IAUTO_6



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	<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>HUMAN BODY FLUIDS AND TISSUE (cont'd)</p>	<p><u>Immunology activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Allergen Specific IgE (whole allergens): (cont'd)</p>	<p>Phadia 2500 by FEIA LP_IAUTO_6</p>



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	<ul style="list-style-type: none"> <li>•Melon (f87)</li> <li>•Milk (f2)</li> <li>•Mould mix (mx1): <i>Penicillium chrysogenum (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>HUMAN BODY FLUIDS AND TISSUE (cont'd)</p>	<p><u>Immunology activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Allergen Specific IgE (whole allergens): (cont'd)</p>	<p>Phadia 2500 by FEIA LP_IAUTO_6</p>



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	<ul style="list-style-type: none"> <li>•Seafood mix (fx2): Cod, Shrimp, Blue mussel, Tuna, Salmon</li> <li>•Seminal fluid (o70)</li> <li>•Sesame seed (f10)</li> <li>•Shrimp (f24)</li> <li>•Silver Birch (t3)</li> <li>•Soya bean (f14)</li> <li>•Spice mix (fx71): Caraway, Mace, Cardamom, Clove</li> <li>•Strawberry (f44)</li> <li>•Sunflower seed (k84)</li> <li>•Suxamethonium (c202)</li> <li>•Tomato (f25)</li> <li>•Tree pollen mix (tx8): Box-elder, Common silver birch, Hazel, Oak, Maple leaf sycamore - London plane</li> <li>•Tuna (f40)</li> <li>•Vanilla (f234)</li> <li>•Walnut (f256)</li> <li>•Wasp venom (i3)</li> <li>•Weed pollen mix (wx3): Mugwort, Plantain (English) - Ribwort, Goosefoot - Lamb's Quarter, Goldenrod, Nettle</li> <li>•Wheat (f4)</li> <li>•White bean (f15)</li> </ul> <p>Allergen Specific IgE (Allergen Components):</p> <p>Peanut</p> <ul style="list-style-type: none"> <li>• rAra h1 (f422)</li> <li>• rAra h2 (f423)</li> <li>• rAra h3 (f424)</li> <li>• rAra h6 (f447)</li> <li>• rAra h8 (f352)</li> <li>• rAra h9 (f427)</li> </ul>	
<p>HUMAN BODY FLUIDS AND TISSUE (cont'd)</p>	<p><u>Immunology activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Allergen Specific IgE (whole allergens): (cont'd)</p>	<p>Phadia 2500 by FEIA LP_IAUTO_6</p>





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	<p>Hazelnut</p> <ul style="list-style-type: none"> <li>• rCor a1 (f428)</li> <li>• rCor a8 (f425)</li> <li>• nCor a9(f440)</li> <li>• rCor a14 (f439)</li> </ul> <p>Wasp</p> <ul style="list-style-type: none"> <li>• rVes v1 (i211)</li> <li>• rVes v5 (i209)</li> </ul> <p>Honey Bee</p> <ul style="list-style-type: none"> <li>• rApi m1 (i208)</li> <li>• rApi m10 (i217)</li> </ul> <p>Red meat</p> <ul style="list-style-type: none"> <li>• Alpha-Gal (o215)</li> </ul> <p>Egg</p> <ul style="list-style-type: none"> <li>• nGal d1 (f233)</li> </ul> <p>Peach</p> <ul style="list-style-type: none"> <li>• rPru p1 (f419)</li> <li>• rPru p3 (f420)</li> <li>• rPru p4 (f421)</li> </ul> <p>Apple</p> <ul style="list-style-type: none"> <li>• rMal d3 (f435)</li> </ul> <p>Birch</p> <ul style="list-style-type: none"> <li>• rBet v1 (t215)</li> <li>• rBet v2 (t216)</li> </ul>	
<p>HUMAN BODY FLUIDS AND TISSUE (cont'd)</p>	<p><u>Immunology activities for the purpose of clinical diagnosis</u> (cont'd)</p> <p>Detection of;</p>	<p>Phadia 2500 by FEIA LP_IAUTO_6</p> <p>Phadia 250 by FEIA LP_IAUTO_6</p>



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	Anti-Glomerular basement membrane (GBM) antibodies  Anti-Myeloperoxidase (MPO) antibodies  Anti-Proteinase 3 (PR3) antibodies  Specific IgG antibodies: <ul style="list-style-type: none"> <li>• Aspergillus precipitins</li> <li>• Avian precipitins (pigeon)</li> <li>• Farmers Lung serology (micropolysporia)</li> </ul> Tryptase  Quantification of serum Free Light Chains(Serum free kappa and lambda light chains)  Quantification of C1 inhibitor  Complement Function <ul style="list-style-type: none"> <li>• CH100 (Classical Pathway)</li> <li>• AP100 (Alternative Pathway)</li> </ul> C1 Inhibitor Function	Optilite by turbidimetry  LP_ICHEM_9  LP_ICHEM_10  Radial Immunodiffusion (RID) using SOPs: LP_ICHEM_11 Classical pathway, LP_ICHEM_12 Alternate Pathway  Chromogenic assay using Thermo Multiskan FC Microplate Photometer and SOP: LP_ICHEM_15

END