


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p>8547</p> <p>Accredited to ISO 15189:2012</p>	<h3>Lancashire Teaching Hospitals NHS Foundation Trust</h3> <p>Issue No: 005    Issue date: 26 October 2023</p>	
	<p>Department of Immunology Royal Preston Hospital Sharoe Green Lane Fulwood Preston PR2 9HT United Kingdom</p>	<p>Contact: Dr Anthony Rowbottom Tel: +44 (0) 1772 522132 (Ext 2132) E-Mail: Anthony.Rowbottom@lthtr.nhs.uk Website: www.lancsteachinghospitals.nhs.uk</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
<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p>	<p><u>Immunological examination activities for the purposes of clinical diagnosis:</u></p> <p><u>Allergy Testing</u></p> <p>Total IgE Level</p> <p>Specific IgE:</p> <p><b>Grass pollens</b> nCyn d 1 Bermuda grass rPhl p 1 Timothy rPhl p 2 Timothy</p> <p>nPhl p 4 Timothy rPhl p 6 Timothy rPhl p 7 Timothy rPhl p 11 Timothy</p> <p>rPhl p 12 Profilin, Timothy rPhl p 1, rPhl p 5b Timothy rPhl p 7, rPhl p 12 Timothy rPhl p 5b Timothy</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>ImmunoCAP (fluorescent enzyme immunoassay) using Phadia 2500 SOPs SIM-156 and SIM-157</p>



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Blood (unless otherwise stated)</p>	<p><u>Immunological examination activities for the purposes of clinical diagnosis (cont'd):</u></p> <p><u>Allergy Testing (cont')</u></p> <p>Specific IgE:</p> <p><b>Weed pollens</b>  nAmb a 1 Ragweed  nArt v 1 Mugwort  nArt v 3 LTP, Mugwort</p> <p>rPar j 2 LPT, Wall pellitory  rPla l 1 Plantain  nSal k 1 Saltwort</p> <p><b>Tree pollens</b>  rBet v 1 PR-10, Birch  rBet v 2 Profilin, Birch  rBet v 4 Birch  rBet v 6 Birch</p> <p>rBet v 2, rBet v 4 Birch  nCup a 1 Cypress  rOle e 1 Olive  nOle e 7 LTP, Olive</p> <p>rOle e 9, Olive  rPla a 1 Maple leaf sycamore,  London plane</p> <p><b>Microorganisms</b>  rAlt a 1  rAsp f 1  rAsp f 2</p> <p>rAsp f 3  rAsp f 4  rAsp f 6</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>ImmunoCAP (fluorescent enzyme immunoassay) using Phadia 2500 SOPs SIM-156 and SIM-157</p>



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

### Lancashire Teaching Hospitals NHS Foundation Trust

Issue No: 005 Issue date: 26 October 2023

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<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p>	<p>Immunological examination activities for the purposes of clinical diagnosis:</p> <p><u>Allergy Testing (cont')</u></p> <p>Specific IgE:</p> <p>r Api m 2 Hyaluronidase, Honey Bee</p> <p>r Api m 3 Acid Phosphatase, Honey Bee</p> <p>r Api m 5 Dipeptidyl peptidase, Honey Bee</p> <p>rApi m 10 Icarapin, Honey bee</p> <p>rVes v 1 Phospholipase A1, Common wasp</p> <p>rVes v 5 Common wasp</p> <p>rPol d 5 European Paper Wasp</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>ImmunoCAP (fluorescent enzyme immunoassay) using Phadia 2500 SOPs SIM-156 and SIM-157</p>



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

### Lancashire Teaching Hospitals NHS Foundation Trust

Issue No: 005 Issue date: 26 October 2023

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS  Blood (unless otherwise stated)	Immunological examination activities for the purposes of clinical diagnosis:  <u>Autoantibody Detection (cont')</u>	In house documented procedures based on equipment manuals and standard methods as specified below:
	IgG Anti Neutrophil Cytoplasmic Antibodies (ANCA)	Manual Indirect immunofluorescence (cont') with reference to :
	IgG Phospholipase A <sub>2</sub> Receptor Antibodies	SIM-24 (on Neutrophils)
	IgG Paraneoplastic Antibody Screen	SIM-131 (on Transfected Cells)
Skin & kidney biopsy	Examination of Immune Complexes and Complement Deposition in Biopsy material. Presence or absence of: IgG IgA IgM C3 C4 Fibrinogen	SIM-25 (on Cerebellum)
	IgG Cyclic Citrullinated Peptide	Direct immunofluorescence using Dako Conjugates SIM-5
	IgG/IgM Cardiolipin	EliA (fluorescent enzyme immunoassay) Phadia 2500 with reference to: SIM-156 and SIM-157
	IgG/IgM Beta-2-Glycoprotein 1 Antibodies	
	IgG dsDNA Antibodies	



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<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p>	<p>Immunological examination activities for the purposes of clinical diagnosis:</p> <p><u>Autoantibody Detection (cont')</u></p> <p>IgG Connective Tissue Disease Screen</p> <p>IgA/IgG Tissue Transglutaminase Abs</p> <p>IgG Symphony (ENA Screen)</p> <p>IgG ENA Confirmation:  Ro (SS-A)  La (SS-B)  Sm  U1-snRNP  Jo-1  Scl-70  CENP B</p> <p>IgG Glomerular Basement Membrane</p> <p>IgG MPO and PR3 Antibodies</p> <p>IgG Thyroid Peroxidase Antibodies</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>EliA (fluorescent enzyme immunoassay) using Phadia 2500 with reference to:  SIM-156 and SIM-157 (cont')</p> <p>EliA (fluorescent enzyme immunoassay) using Phadia 2500 and Phadia 250 with reference to SIM-156, SIM-157 and SIM-17</p>



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<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p>	<p>Immunological examination activities for the purposes of clinical diagnosis:</p> <p><u>Autoantibody Detection (cont')</u></p> <p>IgG Paraneoplastic Antibody Confirmation:  Amphiphysin  CV2/CRMP5  PNMA2 (Ma2/Ta)  Ri  Yo  Hu</p> <p>IgG Systemic Sclerosis (Nucleoli) Profile:  Scl-70  CENP A  CENP B  RP11 and RP155 (RNA Polymerase III subunits),  Fibrillarin  NOR90  Th/To  PM-Scl100  PM-Scl75  Ku  PDGFR (platelet derived growth factor receptor)  Ro-52</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>Automated Euroline Immunoblot using the EUROBlotMaster with reference to:</p> <p>SIM-26</p> <p>SIM-136</p>



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<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p>	<p>Immunological examination activities for the purposes of clinical diagnosis:</p> <p><u>Autoantibody Detection (cont')</u></p> <p>IgG Myositis Profile:            Mi-2 Alpha            Mi-2 Beta            TIF-1 gamma            MDA-5            NPX2            SAE1            Ku            PM-Sc1100            PM-Sc175            Jo-1            SRP            PL-7            PL-12            EJ            OJ            Ro-52</p> <p>Liver Autoantibody Profile:            M2            M2-3E (BPO)            SP-100            PML            GP210            LKM1            LC1            SLA            Ro-52</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>Automated Euroline Immunoblot using the EUROBlotMaster (cont') with reference to SIM-160 and:</p> <p>SIM-161</p> <p>SIM-161</p>



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HUMAN BODY FLUIDS Blood (unless otherwise stated)	Immunological examination activities for the purposes of clinical diagnosis:  Specific Microbial Antibody Detection:  Haemophilus influenzae B	In house documented procedures based on equipment manuals and standard methods as specified below:  ELISA using Dynex DSII processor SOP SIM-45 and SIM-170



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<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p>	<p>Immunological examination activities for the purposes of clinical diagnosis:</p> <p><u>Detection of Cell surface and intracellular cell markers</u></p> <p>Lymphocyte Subset Analysis: Cell Markers</p> <p>CD3, CD4, CD8, CD16, CD19, CD56, CD45,</p> <p>Immunodeficiency/Class Switch/Leukocyte Adhesion Deficiency Cell Markers: (in addition to above and below) CD18, CD27</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>Beckman Coulter Navios Flow Cytometer, TQ Prep, and MicroFlow Class I Safety cabinet with reference to:</p> <p>SIM-82, SIM-145, SIM-149 and SIM-119</p>



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<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p>	<p>Immunological examination activities for the purposes of clinical diagnosis:</p> <p>Detection of Cell surface and intracellular cell markers (cont')</p> <p>Myeloid:</p> <p>CD13, CD14, CD15, CD33, CD34, CD38, CD45, CD56, CD64, CD117, CD138, HLADR II, CyCD3, CyCD13, CyCD79A, CyMPO, CyTdt</p> <p>Neutrophil Oxidative Burst (DHR)</p> <p><u>Immunochemistry</u></p> <p>Functional C1 inhibitor</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>Beckman Coulter Navios Flow Cytometer, TQ Prep, and MicroFlow Class I Safety cabinet (cont') with reference to:</p> <p>SIM-82, SIM-102, SIM-105, SIM-126 and SIM-89</p> <p>SIM-145 and SIM-83</p> <p>Manual ELISA assay read on Dynex DSII processor SIM-167</p>
<p>Also CSF</p>	<p>Oligoclonal Band Detection</p>	<p>Isoelectricfocusing using Helena Biosciences EPS-600 SIM-50 and SIM-42</p>
<p>Urine</p>	<p>Detection of normal and abnormal protein fractions</p>	<p>Capillary electrophoresis using Sebia Capillarys SIM-86, SIM-101 and SIM-124</p>



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HUMAN BODY FLUIDS Blood (unless otherwise stated)	Immunological examination activities for the purposes of clinical diagnosis:  <u>Immunochemistry (con't)</u>	In house documented procedures based on equipment manuals and standard methods as specified below:
Urine	Detection of normal and abnormal protein fractions	Agarose gel electrophoresis using Sebia Hydrasys 2 with reference to: SIM-48 and SIM-69
Serum	Identification of paraprotein bands and / or cryoproteins	SIM-48, SIM-60 and SIM-41
Urine	Identification of paraprotein bands  Specific IgG Quantitation: Aspergillus Avian – Budgerigar, Pigeon and Parrot Candida Albicans Farmers Lung – Micropolyspora Faeni and Thermoactinomydes Vulgaris Cladosporium Herbarum Alternaria alternata	SIM-48 and SIM-70  ImmunoCAP methodology (fluorescent enzyme immunoassay) using Phadia 250 SIM-84 and SIM-63
	Protein Quantification:	Nephelometry on the Siemens BN II SIM-158 and SIM-159
	Specific Protein Quantitation: Alpha-1-Acid Glycoprotein Alpha-1-Antitrypsin Albumin Complement C3 and C4 Complement C1 Inhibitor Haptoglobin Rheumatoid Factor IgG Subclasses Free Light Chains	



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<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p> <p>Also Urine</p> <p>Urine</p> <p>CSF</p> <p>Joint Fluid</p>	<p>Immunological examination activities for the purposes of clinical diagnosis:</p> <p>Protein Quantification:</p> <p>Specific Protein Quantitation: Beta-2-Microglobulin</p> <p>Free Light Chains</p> <p>CSF Protein Quantitation: IgG and Albumin</p> <p><u>Macro and Microscopy Joint Fluid Analysis</u></p> <p>Synovial fluid assessment for detection of crystals: Monosodium urate Calcium pyrophosphate dihydride</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>Nephelometry on the Siemens BN II SIM-158 and SIM-159 (cont')</p> <p>Manual macroscopy and microscopy SIM-37 &amp; SIM-88</p>
END		