


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>8547</p> <p>Accredited to ISO 15189:2012</p>	<p>Lancashire Teaching Hospitals NHS Foundation Trust</p> <p>Issue No: 002 Issue date: 11 May 2020</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>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
<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>Grass pollens 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>Weed pollens 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>Tree pollens 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>Microorganisms 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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<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>Drugs Amoxicilloyl Ampicilloyl Cefaclor</p> <p>Chlorhexidine Gelatin bovine</p> <p>Insulin human Penicilloyl G Penicilloyl V</p> <p>Pholcodine Morphine Suxamethonium (succinylcholine)</p> <p>Occupational Bougainvillea</p> <p>Cotton seed Ethylene oxide Ficus Ficus spp</p> <p>Formaldehyde/Formalin Green coffee bean Hexahydrophthalic anhydrid Isocyanate HDI (Hexamethylene diisocyanate)</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</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>Occupational (cont') Isocyanate MDI (Diphenylmethane diisocyanate) Isocyanate TDI (Toluene diisocyanate) Ispaghula Latex</p> <p>Phthalic anhydride Silk Bombyx mori Silk waste</p> <p>Sunflower seed Trimellitic anhydride, TMA nAna c 2 Bromelain, Pineapple</p> <p>nAsp o 21 alpha-amylase nCar p 1 Papain, Papaya nGal d 4 Lysozyme, Egg</p> <p>rHev b 1 Latex rHev b 3 Latex rHev b 5 Latex rHev b 6.01 Latex</p> <p>rHev b 6.02 Latex rHev b 8 Profilin, Latex rHev b 9 Latex rHev b 11 Latex</p> <p>Savinase nSus s Pepsin, Swine</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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CSFalso	Tissue Autoantibody Screens and Titres: Reticulin Smooth Muscle Mitochondrial M2 Mitochondrial (non M2) Gastric Parietal Cell Ribosomal Liver Kidney Microsomal	Indirect immunofluorescence using using Menarini Zenit S + SP SIM-3 and SIM-128
	Antinuclear Antibody Screening and Quantitation	Indirect immunofluorescence on HEp-2000 using Menarini Zenit S + SP SOP SIM-4 and SIM-128
	IgG dsDNA Antibodies	Manual Indirect immunofluorescence with reference to : SIM-11 (on Crithidia)
	IgA/IgG Endomysial Antibodies	SIM-16 (on Oesophagus)
	IgG Miscellaneous Organ Specific Antibodies: Adrenal Ovary Testis Pancreas Salivary Gland Cardiac Muscle Striated Muscle	SIM-21



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<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p> <p>CSF also</p> <p>Skin & kidney biopsy</p>	<p>Immunological examination activities for the purposes of clinical diagnosis:</p> <p><u>Autoantibody Detection (cont')</u></p> <p>IgG Anti Neutrophil Cytoplasmic Antibodies (ANCA)</p> <p>IgG Phospholipase A₂ Receptor Antibodies</p> <p>IgG Paraneoplastic Antibody Screen</p> <p>Examination of Immune Complexes and Complement Deposition in Biopsy material. Presence or absence of:</p> <p>IgG IgA IgM C3 C4 Fibrinogen</p> <p>IgG Cyclic Citrullinated Peptide</p> <p>IgG/IgM Cardiolipin</p> <p>IgG/IgM Beta-2-Glycoprotein 1 Antibodies</p> <p>IgG dsDNA Antibodies</p>	<p>In house documented procedures based on equipment manuals and standard methods as specified below:</p> <p>Manual Indirect immunofluorescence (cont') with reference to :</p> <p>SIM-24 (on Neutrophils)</p> <p>SIM-131 (on Transfected Cells)</p> <p>SIM-25 (on Cerebellum)</p> <p>Direct immunofluorescence using Dako Conjugates SIM-5</p> <p>EliA (fluorescent enzyme immunoassay) Phadia 2500 with reference to: SIM-156 and SIM-157</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 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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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: Autoantibody Detection (cont') IgG Intrinsic Factor Antibodies IgG TSH Receptor Antibodies Glutamic acid decarboxylase (GAD) antibodies	In house documented procedures based on equipment manuals and standard methods as specified below: ELISA using Trituris processor with reference to SIM-104 and: SIM-19 SIM-38 SIM-163



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<p>HUMAN BODY FLUIDS</p> <p>Blood (unless otherwise stated)</p> <p>And CSF</p>	<p>Immunological examination activities for the purposes of clinical diagnosis:</p> <p><u>Autoantibody Detection (cont')</u></p> <p>IgG Paraneoplastic Antibody Confirmation:</p> <p>Amphiphysin CV2/CRMP5 PNMA2 (Ma2/Ta) Ri Yo Hu</p> <p>IgG Systemic Sclerosis (Nucleoli) Profile:</p> <p>Sc1-70 CENP A CENP B RP11 and RP155 (RNA Polymerase III subunits), Fibrillarin NOR90 Th/To PM-Sc100 PM-Sc175 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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<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>Specific Microbial Antibody Detection: Tetanus Haemophilus B</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>ELISA using Trituris processor SIM104 and SIM-45</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>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, PrepPlus2 and MicroFlow Class I Safety cabinet with reference to:</p> <p>SIM-82, SIM-145, SIM-149 and SIM-119</p>
<p>Also CSF and Pleural Fluid</p>	<p>Leukaemia Immunophenotyping:</p> <p>T-Cell Markers</p> <p>CD1a, CD2, CD3, CD4, CD5, CD7, CD8, CD10, CD16, CD19, CD25, CD45, CD45RO, CD45RA, CD56, TCRab, TCRgd, CyTCRab, CyTCRgd</p> <p>B-Cell Markers:</p> <p>CD5, CD10, CD11c, CD19, CD20, CD22, CD23, CD38, CD56, CD79b, CD103, FMC7, KAPPA, LAMBDA, IgD, CyKAPPA, CyLAMBDA</p>	<p>SIM-82, SIM-102, SIM-105, SIM-126 and SIM-89</p> <p>SIM-82, SIM-102, SIM-105, SIM-126 and SIM-89</p>



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HUMAN BODY FLUIDS Blood (unless otherwise stated)	Immunological examination activities for the purposes of clinical diagnosis: Detection of Cell surface and intracellular cell markers (cont')	In house documented procedures based on equipment manuals and standard methods as specified below: Beckman Coulter Navios Flow Cytometer, TQ Prep, PrepPlus2 and MicroFlow Class I Safety cabinet (cont') with reference to:
	Myeloid: CD13, CD14, CD15, CD33, CD34, CD38, CD45, CD56, CD64, CD117, CD138, HLADR II, CyCD3, CyCD13, CyCD79A, CyMPO, CyTdt	SIM-82, SIM-102, SIM-105, SIM-126 and SIM-89
	Neutrophil Oxidative Burst (DHR)	SIM-145 and SIM-83
	<u>Immunochemistry</u> Functional Complement Classical Pathway and Alternate Pathway	ELISA using Trituris Processor SIM-104 and SIM-46
Also CSF	Oligoclonal Band Detection	Isoelectricfocusing using Helena Biosciences EPS-600 SIM-50 and SIM-42
Urine	Detection of normal and abnormal protein fractions	Capillary electrophoresis using Sebia Capillarys SIM-86, SIM-101 and SIM-124



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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: 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	Nephelometry on the Siemens BN II SIM-158 and SIM-159



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