


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>UKAS MEDICAL 8782</p> <p>Accredited to ISO 15189:2012</p>	<h3>Oxford University Hospitals NHS Foundation Trust</h3> <p>Issue No: 006 Issue date: 19 July 2024</p>	
	<p>Oxford University Hospitals NHS Foundation Trust The Churchill Hospital Department of Immunology Old Road Headington OX3 7LE</p>	<p>Contact: Kamini Mistry Tel: +44 (0) 1865 225992 E-Mail: kamini.mistry@ouh.nhs.uk Website: www.ouh.nhs.uk/immunology/</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>Serum/Plasma</p>	<p><u>Immunological examinations for the purpose of clinical diagnosis</u></p> <p>Detection of the following:</p> <p>Myeloperoxidase antibodies Proteinase 3 antibodies</p> <p>CCP antibodies Anti- Cardiolipin IgG and IgM anti-Beta-2 Glycoprotein IgG and IgM</p> <p>Extractable nuclear antigen antibody screen</p> <p>Extractable nuclear antigen antibody profile (including antibodies to RNP70, U1-snRNP, Sm, SSA (Ro), SSB (La), Scl-70, CENP, Jo-1, Ro52 and Ro60)</p> <p>Total IGE Tryptase Thyroid peroxidase abs</p>	<p>In-house documented procedures based on equipment manuals as relevant</p> <p>ELIA assay using in house procedures: SOP Immunology 42328 In conjunctions with manufacturer's instructions using: Phadia ImmunoCAP 250</p>



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HUMAN BODY FLUIDS (cont'd)	<p><u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)</p> <p><u>Specific IGE abs</u></p> <p>t2 Alder (Grey) Pollen f20 Almond Detection of the following: c6 Amoxicilloyl f313 Anchovy f49 Apple f237 Apricot m3 Aspergillus Fumigatus f262 Aubergine</p>	<p>In-house documented procedures based on equipment manuals as relevant</p> <p>ImmunoCAP assay using the ImmunoCAP 250: SOP Immunology 42328 In conjunctions with manufacturer's instructions using: Phadia ImmunoCAP 250</p>
Serum/Plasma	<p>Detection of the following:</p> <p><u>Specific IGE abs</u> (cont'd)</p> <p>f96 Avocado f92 Banana f6 Barley f269 Basil i1 Bee venom (Honey) f27 Beef t3 Birch (Common Silver) f211 Blackberry f280 Black pepper f37 Blue Mussel f18 Brazil Nut f11 Buckwheat m5 Candida albicans f31 Carrot f202 Cashew nut e1 Cat (& dander) f85 Celery f81 Cheese (cheddar type) f82 Cheese (Mold type). f242 Cherry f299 Chestnut Sweet f309 Chick Pea f83 Chicken meat f279 Chili pepper</p>	<p>ImmunoCAP assay using the ImmunoCAP 250: SOP Immunology 42328 In conjunctions with manufacturer's instructions using: Phadia ImmunoCAP 250</p>



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HUMAN BODY FLUIDS (cont'd)	<p><u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)</p> <p><u>Specific IGE abs</u> (cont'd)</p> <p>c8 Chlorhexidine f93 Chocolate (Cacao) f207 Clam f36 Coconut f3 Cod f221 Coffee w1 Common Ragweed f317 Coriander f8 Corn (Maize) f2 Cow's Milk f23 Crab f244 Cucumber f289 Date e5 Dog dander f1 Egg White i75 European hornet venom</p>	<p>In-house documented procedures based on equipment manuals as relevant</p> <p>ImmunoCAP 250 cont'd</p>
	<p>ex71 feathers of goose, chicken, duck & turkey ex72 feathers of budgie, finch, canary, parakeet, parrot e217 Ferret epithelium f47 Garlic c74 Gelatin (Bovine) f270 Ginger f79 Gluten f300 Goats Milk f259 Grape g6 Grass (Timothy) gx1 Grass pollen mix e6 Guinea Pig epithelium f42 Haddock e84 Hamster epithelium f17 Hazelnut f247 Honey e3 Horse dander d1 House Dust Mite k77 Isocyanate HDI k76 Isocyanate MDI k75 Isocyanate TDI f84 Kiwi f88 Lamb (Mutton) k82 Latex f208 Lemon f235 Lentil</p>	



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd) <u>Specific IGE abs</u> (cont'd) f215 Lettuce f306 Lime f333 Linseed f80 Lobster f335 Lupin Seed f345 Macadamia nut f206 Mackerel f91 Mango f87 Melon fx1 Mixed Nuts (almond, brazil nut, peanut, hazel nut & coconut) i71 Mosquito	In-house documented procedures based on equipment manuals as relevant ImmunoCAP 250 cont'd
	mx1- Mixed Moulds (Penicillium Chrysogenum, Cladosporium herbarum, Aspergillus fumigatis, Alternaria alternata) e72 Mouse Urine Protein w6 Mugwort f212 Mushroom f89 Mustard f7 Oat f342 Olive (black) f48 Onion f33 Orange f290 Oyster f86 Parsley f12 Pea f95 Peach f13 Peanut f94 Pear f201 Pecan nut c1 Penicilloyl G c2 Penicilloyl V e215 Pigeon feathers f253 Pine Nut f210 Pineapple f203 Pistachio f255 Plum f224 Poppy seed f26 Pork f35 Potato f225 Pumpkin e82 Rabbit epithelium w203 Rape	



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	<p>i209 rVes v 5 Common wasp f5 Rye f41 Salmon f338 Scallop o70 Seminal fluid f10 Sesame seed f24 Shrimp f14 Soy bean f214 Spinach f58 Squid (pacific) k84 Sunflower seed c202 Suxamethonium f218 Sweet pepper/paprika f44 Strawberry f25 Tomato tx8 Tree pollen mix (tx8) (Acer negrundo, Betula Verrucosa, Corylus Avellana, Quercus alba, Plantus acerifulia f204 Trout f40 Tuna f256 Walnut i3 Wasp venom (common) f4 Wheat f15 White Bean f45 Yeast</p> <p>Peanut components F422 r Ara h 1 Peanut F423 r Ara h 2 Peanut F424 r Ara h 3 Peanut F352 r Ara h 8 PR-10 Peanut F427 r Ara h 9 LTP Peanut</p>	



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HUMAN BODY FLUIDS (cont'd)	<p><u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)</p> <p><u>Specific IGE abs</u> (cont'd) Egg components F233 nGal d 1 Ovomuroid Egg F232 nGal d 2 Ovalbumin Egg</p> <p>Hazelnut components F428 rCor a 1 PR-10 Hazelnut F425 rCor a 8 LTP Hazelnut F440 nCor a 9 Hazelnut F439 rCor a 14 Hazelnut</p> <p>Soy components F353 rGly m 4 PR-1o Soy F431 nGly m 5 B conglycinin Soy F432 nGly m 6 Glycinin Soy</p> <p>Wheat components F416 rTri a 19 Omega-5 Gliadin F433 rTri a 14 LTP Wheat</p> <p>Birch components T215 rBet v 1 PR-10 Birch T216 rBet v 2 Profillin Birch T220 rBet v 4 Birch T225 rBet v 6 Birch</p> <p>IgM Cardiolipin IgM B2GP1</p>	<p>In-house documented procedures based on equipment manuals as relevant</p> <p>ImmunoCAP 250 cont'd</p>
Serum	<p>Aspergillus fumigatus IgG</p> <p>Detection of the following:</p>	<p>Fluorescent enzyme immunoassay on the ImmunoCAP250 SOP: Immunology 42328</p> <p>Neuroimmunology and Radioimmunoassay (RIA) using Wallac Wizard 1470 automatic Gamma Counter and In-house documented procedures based on equipment manuals as relevant:</p>
Serum	Acetylcholine receptor antibody	SOP: immunology 116
Serum	Muscle specific Kinase antibody	SOP: immunology 118
Serum/CSF	Voltage Gated potassium Channel antibody	SOP: immunology 153
Serum/CSF	Voltage Gated Calcium Channel Antibodies	SOP: Immunology 2205



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CSF	Orexin Levels (Hypocretin)	Radio Immunoassay with use of the gamma counter SOP: Immunology 2181
Serum/Plasma/CSF	NMDA receptor antibodies (Fixed Cell)	Manual Indirect immunofluorescence using fixed transfected cell lines using in house procedures: SOP immunology 1234 in conjunction with kit instructions using: Euroimmun
Serum/Plasma	Fixed Aquaporin 4 antibodies Fixed Cell IgLON5 antibody	Automated indirect immunofluorescence on the Sprinter SOP: Immunology 1987 SOP: Immunology 2316
Serum/CSF	Detection of the following: Fixed Cell AMPA1 and AMPA2 receptor antibodies Fixed Cell DPPX antibody Fixed Cell GABA-B receptor antibody Paraneoplastic Screening Antibodies (Hu, Yo & Ri) Fixed Cell LGI and CASPR2 antibodies Fixed Cell NMDA abs Detection of the following:	Euroimmun Euroworkstation IIF and Europattern automated microscope: SOP: Immunology 2672 SOP: Immunology 2317 SOP: Immunology 2672 SOP: Immunology 114 SOP: Immunology 2302 SOP: Immunology 1234
Serum/Plasma /CSF Serum/Plasma Serum/Plasma Serum/Plasma Serum Serum Serum/Plasma Serum Serum/Plasma Serum CSF	IgG IgA IgM Total protein Complement C3 Complement C4 Alpha 1 anti-trypsin Ceruloplasmin β2-microglobulin Rheumatoid factor Albumin	Immunochemistry Protein quantitation by turbidimetry on Abbott c4000 Architect Immunochemistry analyser using SOP immunology 1260 2



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)	In-house documented procedures based on equipment manuals as relevant
Serum/Plasma	Detection of the following: Serum free light chains IgG subclasses <ul style="list-style-type: none"> • IgG1 • IgG2 • IgG3 • IgG4 Hevylite <ul style="list-style-type: none"> • IgGκ • IgGλ • IgAκ • IgAλ • IgMκ • IgMλ 	Immunochemistry Protein quantitation by turbidimetry on The Binding Site Optilite analyser using SOP Immunology 2190
Serum	C1 inhibitor level	
Serum	Monoclonal immunoglobulin proteins (Quantification and identification)	Capillary zone electrophoresis and Immunodisplacement (for monoclonal band identification) using in house procedures: SOP immunology 1017 In conjunction with manufacturer's instructions using: Helena V8 analyser
Urine	Monoclonal immunoglobulin proteins (Bence-Jones proteins)	Protein electrophoresis using in house procedures: SOP immunology 1014 In conjunction with manufacturer's instructions using: Helena SAS3&4
Serum, urine	Monoclonal immunoglobulin proteins (identification via immunofixation)	Protein Immunofixation using in house procedures: SOP immunology 1013 (serum) SOP immunology 1015 (urine) SOP immunology 1016 (serum and urine combined) In conjunction with manufacturer's instructions using: Helena SAS 3&4 using



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Serum	<u>Immunofixation</u>	Helena SAS serum immunofixation SOP Immunology 101
Serum	C3 Nephritic factor	Protein Immunofixation using in house procedures: SOP immunology 1042 In conjunction with manufacturer's instructions using: Helena SAS 3&4 using
	Detection of the following using:	Isoelectric focusing (IEF) using Sebia Hydrasys 2 in conjunction with in house procedures: Immunology 2893 Immunology 773
Serum and CSF	IgG oligoclonal bands	SOP immuno 64 & 773
Serum	Alpha 1 anti-trypsin phenotyping	SOP immunology 192 & 772
	Detection of the following using:	
Serum	CH100 Classical complement pathway function	ELISA using Wieslab Kit: SOP Immunology 2787
Serum	AP100 Alternative complement pathway function	ELISA using Wieslab Kit: SOP Immunology 2787
Serum	C1 esterase inhibitor function	Chromogenic assay from Technochrom® kit measured on Shimadzu UV spectrophotometer using: SOP immuno 72
Serum	Cryoprotein detection, measurement and typing of Cryoglobulins & Cryofibrinogen	Electrophoresis platform used for typing of cryoglobulin by immunofixation using: Helena SAS3 In conjunction with in house procedure: SOP immunology 1049



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Serum	Adrenal Cortex antibodies and Ovarian Antibodies	Quantalyser 3000 SOP: Immunology 2892 SOP: Immunology 82 SOP: Immunology 80 Automated or Manual slide preparation in conjunction with manufacturer's instructions using: Werfen Quantalyser followed by Indirect Immunofluorescence microscopy using in house procedures:
Serum	Anti-Nuclear antibodies	SOP immuno 77
Serum	Anti-Neutrophil Cytoplasmic antibodies	SOP immuno 78
Serum	Anti-Liver/Kidney/Stomach antibodies (GPC, mitochondrial, smooth muscle and LKM)	SOP immuno 76
Serum	Anti-Endomysial antibodies (IgA)	SOP immuno 79
Serum	Anti-Ovarian antibodies	SOP immuno 82
Serum	Anti-Adrenal antibodies	SOP immuno 80
Serum	Anti-Skin antibodies	SOP immuno 84
Serum	Anti-Islet cell antibodies	SOP immuno 83
	Detection of the following:	Immunoblot
Serum	Anti-Myositis antibodies (Mi2, Ku, PM-Scl 100, PM-Scl 75, Jo-1, SRP, PL-7, PL-12, EJ, OJ)	Manual Immunoblot method from Euroimmun, read and analyser by Euroimmun scanner using: SOP immunology 42336
Serum	Anti-autoimmune liver disease antibodies including (M2, M2-3E(BPO), Sp100, gp210, LKM-1, LC-1, SLA/LP and PML)	Manual Immunoblot method from Euroimmun, read and analyser by Euroimmun scanner using: SOP immunology 42330
Serum/CSF	Anti-Paraneoplastic antibodies (including Hu, Yo, Ri, Ma1, Ma2, CV2/CRMP-5, Amphyphisin, Tr)	Manual Immunoblot method from Euroimmun, read and analyser by Euroimmun scanner using: SOP immunology 115



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis</u> (cont'd)	In-house documented procedures based on equipment manuals as relevant
Serum/CSF	Paraneoplastic antibody screen for: anti-Hu (ANNA-1), anti-Yo (PCA-1), anti-Ri (ANNA-2), anti-Ma2, anti-SOX1, anti-CV2/CRMP5, anti-Zic4, anti-Amphiphysin, anti-Tr, anti-Recoverin and anti-Titin.	Immunoblot using the EuroBlot One and SOP: Immunology 115
Serum	Liver autoantigen immunoblot	Euroblot 1 automated immunoblot machine: SOP: Immunology 42330
Serum	Myositis autoantigen immunoblot	Euroblot 1 automated immunoblot machine: SOP: Immunology 42336
Serum/CSF	Detection of Paraneoplastic antibodies to include: anti-Hu (ANNA-1), anti-Ri (ANNA-2) and Anti-Yo(PCA-1).	Automated indirect Immunofluorescence using the Sprinter I and SOP: Immunology 114
Serum	Anti- tissue Transglutaminase IgA	Werfen Bioflash using chemiluminescence SOP: Immunology 2753
	Anti- dsDNA antibodies	
	HMGCR (3-Hydroxy-3-Methylglutaryl-Coenzyme A Reductase) MPO, PR3 and GBM	Bioflash SOP Immunology 790



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HUMAN BODY FLUIDS (cont'd)	<u>Immunological examinations for the purpose of clinical diagnosis (cont'd)</u>	In-house documented procedures based on equipment manuals as relevant
	Detection of the following:	Flow cytometry using in house procedures and manufacturer's instructions for staining and acquisition and analysis:
EDTA Blood	Lymphocyte subset enumeration (Total T cells, CD4 T cells, CD8 T cells, CD19 B cells and NK cells)	SOP immunology 2022 Measured using a Beckman-Coulter Aquios CL flow cytometer with Tetra 1 and Tetra 2+ panels
	Leukocyte adhesion deficiency panel CD18 expression	Beckmann-Coulter Navios Flow cytometer SOP's Sop(s): Immunology 2639
EDTA Blood	B cell memory Phenotyping	Beckmann-Coulter Navios Flow cytometer : SOP immunology 2638
EDTA Blood	Double negative (CD4/CD8) alpha/beta T cell Quantification	Beckmann-Coulter Navios Flow cytometer :SOP immunology 2640
EDTA Blood	T cell memory markers (CD3, CD4, CD27, CD28, CD45RO, CD45RA, CCR7, CD31, CD25, CD127, CXCR5)	Beckmann-Coulter Navios Flow cytometer SOP immunology 973
EDTA Blood	Extended T cell phenotyping (CD3, CD25, CD45, HLA-DR, HLA A+B+C, TCR αβ, TCR γδ)	Beckmann-Coulter Navios Flow cytometer, SOP immunology 2789



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EDTA Blood	Neutrophil function test (DHR)	Flow cytometry using in house procedures and manufacturer's instructions for staining and acquisition and analysis: Beckmann-Coulter Navios Flow cytometer SOP Immunology 2032 Immunology 2223
Heparin Blood	T cell proliferation (CFSE)	Beckmann-Coulter Navios Flow cytometer SOP Immunology 2032 Immunology 2222
EDTA Blood	Toll like receptor (TLR4 and TLR7/8) function (CD62L)	Beckmann-Coulter Navios Flow cytometer, SOP Immunology 2032 , 2224
Heparin Blood	TB specific T cell response	Interferon-gamma ELISpot using in house documented procedure: SOP immuno 145 In conjunction with manufacture's instructions using: Oxford Immunotec kit
Quantiferon TB Gold Plus blood collection tubes or heparin whole blood	TB specific T cell response	Interferon-gamma release assay documented procedure: SOP immuno 149 in conjunction with manufacturer's instructions using: QuantiFERON-TB gold Plus ELISA Kit, Qiagen Multiskan FC plate reader, ThermoFisher
EDTA Blood	TH17 Assay	Beckmann-Coulter Navios Flow cytometer, SOP Immunology 2785



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Serum	Pneumococcal serotype antibodies (S1, S3, S5, S4, S6b, S7f, S9v, S14, S18c, S19a, S19f, S23f)	In-house Luminex method using in house documented procedure: SOP immunology 358 In conjunction with manufacturer's instructions using: Luminex machine
Serum / CSF	Anti glutamic acid decarboxylase antibody	Enzyme-Linked immunosorbent assays (ELISA) using manufacture's instructions using: DS2 automated ELISA analyser, in conjunctions with in house procedure: RSR Ltd Sandwich ELISA performed manually or on the DS2 SOP immunology 260
Serum	Thyroid Stimulating Hormone receptor antibody	RSR Ltd ELISA - performed manually or on the DS2 - SOP immunology 261
Serum	Intrinsic factor antibody	Werfen ELISA performed on the DS2 SOP immuno 98
Serum	Infliximab level	TheraDiag ELISA performed on the DS2 - SOP immunology 1461
Serum	anti-Infliximab antibody	TheraDiag ELISA performed on the DS2 SOP immunology 1462
Serum	Adalimumab level	TheraDiag ELISA performed on the DS2 SOP immunology 844
Serum	Anti-Adalimumab antibody	TheraDiag ELISA performed on the DS2 SOP immunology 1460
Serum	Tetanus antibodies	Binding site ELISA performed on the DS2 SOP immunology 1560



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Serum	Haemophilus Influenza B antibodies	Enzyme-Linked immunosorbent assays (ELISA) using manufacture's instructions using: DS2 automated ELISA analyser, in conjunctions with in house procedures: cont'd Binding site ELISA performed on the DS2 using SOP immuno 101
Serum	Pneumococcal antibodies	Binding site ELISA performed on the DS2 using SOP immunology 1473
Serum / plasma / CSF	Ganglioside abs, GM1 and GQ1B	In-house manual ELISA SOP immuno 99
Serum	Anti Myelin associated glycoprotein ab	Buhlmann Laboratories ELISA performed manually SOP immuno 100
Serum	GBM/ANCA SCREEN for MPO, PR3 and GBM antibodies	WIESLAB - Euro-Diagnostica - ELISA performed manually SOP immuno 97
END		