


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>9814</p> <p>Accredited to ISO 15189:2012</p>	<p>Cambridge University Hospitals NHS Foundation Trust</p> <p>Issue No: 004 Issue date: 08 March 2021</p>	
	<p>Biochemistry and Immunology Addenbrookes Hospital Hills Road Cambridge CB2 0QQ</p>	<p>Contact: Marion Enkel Tel: +44 (0)1223 348892 Ext. 58892 E-Mail: M.Enkel@nhs.net Website: www.cuh.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
HUMAN BODY FLUIDS	<u>Immunology examination activities for the purpose of clinical diagnosis</u>	Documented procedures & manufacturer's instructions for Thermoscientific Phadia 2500 and 250 analyser (Fluorescence Enzyme Immunoassay) (FEIA) with specific reference to:
Serum unless otherwise specified	<p>Antinuclear antibody specificities(ANA) ANCA MPO Ds DNA antibody CCP antibodies ENA antibodies</p> <p>ANCA PR3 GBM antibodies Tissue Transglutaminase IgG antibody</p> <p>Tissue Transglutaminase IgA antibody</p> <p>Total IgE Specific IgE(include all allergens)</p> <p>Specific IgE nut mix (fx1) Specific IgE nut mix (fx22) Specific IgE rPru p 4 Profilin Peach (f421) Specific IgE walnut (f256) Specific IgE abachi wood dust (k212) Specific IgE alder tree (t2) Specific IgE almond nut (f20) Specific IgE alternaria alternata (m6) Specific IgE amoxicilloyl (c6) Specific IgE ampicilloyl (c5) Specific IgE anchovy (f313) Specific IgE animal dander mix (ex1)</p>	<p>ADD.BIO 5855 ANA CTD</p> <p>ADD.BIO 5848 ANCA MPO ADD.BIO 5843 dsDNA ADD.BIO 5854 CCP ADD.BIO 5850 ENA Profile & 5852 ENA Screen ADD.BIO 5847 ANCA PR3 ADD.BIO 5849 GBM ADD.BIO 5845 TTG (IgG)</p> <p>ADD.BIO 33810 ELiA IgA</p> <p>ADD.BIO 5844 IgE ADD.BIO 5846 Specific IgE</p>



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<p>HUMAN BODY FLUIDS</p> <p>Serum unless otherwise specified</p>	<p><u>Immunology examination activities for the purpose of clinical diagnosis</u></p> <p>Specific IgE(include all allergens)</p> <p>Specific IgE apple (f49) Specific IgE apricot (f237) Specific IgE aspergillus flavus (m228) Specific IgE aspergillus fumigatus (m3) Specific IgE aspergillus niger (m207) Specific IgE aubergine (f262) Specific IgE avocado (f96) Specific IgE banana (f92) Specific IgE barley (f6) Specific IgE beech tree (t5) Specific IgE beef meat (f27) Specific IgE blue mussel (f37) Specific IgE Blueberry (f288) Specific IgE brazil nut (f18) Specific IgE broccoli (f260) Specific IgE Buckwheat (f11) Specific IgE budgerigar feathers (e78) Specific IgE Budgerigar, Canary, Parakeet, Parrot, finch feathers (ex72) Specific IgE bumble bee venom (i205) Specific IgE canary feathers (e201) Specific IgE candida albicans(m5) Specific IgE Carrot (f31) Specific IgE cashew nut (f202) Specific IgE Cat dander (e1)</p>	<p>Documented procedures & manufacturer's instructions for ThermoScientific Phadia 2500 and 250 analyser (Fluorescence Enzyme Immunoassay) (FEIA) with specific reference to:</p> <p>ADD.BIO 5846 Specific IgE</p>



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<p>HUMAN BODY FLUIDS</p> <p>Serum unless otherwise specified</p>	<p><u>Immunology examination activities for the purpose of clinical diagnosis</u></p> <p>Specific IgE(include all allergens)</p> <p>Specific IgE cefaclor (c7) Specific IgE celery (f85) Specific IgE Cheese (Mould Type) (f82) Specific IgE cheese(cheddar type) (f81) Specific IgE cherry (f242) Specific IgE chicken feather (e85) Specific IgE chicken meat (f83) Specific IgE chickpea (f309) Specific IgE chilli pepper (f279) Specific IgE chlorhexidine (c8) Specific IgE chocolate (f93) Specific IgE cladosporium herbarum (m2) Specific IgE cocksfoot (g3) Specific IgE coconut (f36) Specific IgE cod (f3) Specific IgE coffee (f221) Specific IgE Common Wasp Venom (i3) Specific IgE coriander (f317) Specific IgE cow dander (e4) Specific IgE cow milk (f2) Specific IgE cow whey (f236) Specific IgE crab(f23) Specific IgE cucumber (f244) Specific IgE cultivated wheat pollen (g15) Specific IgE date (f289)</p>	<p>Documented procedures & manufacturer's instructions for ThermoScientific Phadia 2500 and 250 analyser (Fluorescence Enzyme Immunoassay) (FEIA) with specific reference to:</p> <p>ADD.BIO 5846 Specific IgE</p>



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<p>HUMAN BODY FLUIDS</p> <p>Serum unless otherwise specified</p>	<p><u>Immunology examination activities for the purpose of clinical diagnosis</u></p> <p>Specific IgE(include all allergens)</p> <p>Specific igE Tropmysin Shrimp (f351)</p> <p>Specific IgE tuna (f40)</p> <p>Specific IgE turkey feathers (E89)</p> <p>Specific IgE turkey meat (f284)</p> <p>Specific IgE vanilla (f234)</p> <p>Specific igE Weed Mix (wx3)</p> <p>Specific IgE wheat (f4)</p> <p>Specific IgE white bean (f15)</p> <p>Specific IgE whole egg (f245)</p> <p>Specific IgE willow tree (t12)</p> <p>Specific IgE yeast (f45)</p> <p>Cardiolipin IgG antibodies</p> <p>Cardiolipin IgM antibodies</p> <p>Beta 2 glycoprotein 2 IgG antibodies</p> <p>Beta 2 glycoprotein 2 IgM antibodies</p> <p>Specific IgG Aspergillus</p> <p>Specific IgG Pigeon</p> <p>Specific IgG Budgerigar</p> <p>Specific IgG Micropolyspora faeni</p>	<p>Documented procedures & manufacturer's instructions for ThermoScientific Phadia 2500 and 250 analyser (Fluorescence Enzyme Immunoassay) (FEIA) with specific reference to:</p> <p>ADD.BIO 5846 Specific IgE</p> <p>ADD.BIO.5371 Cardiolipin IgG</p> <p>ADD.BIO.5372 Cardiolipin IgM</p> <p>ADD.BIO 5373 IgG Beta 2 glycoprotein 1 antibody</p> <p>ADD.BIO 5374 IgM Beta 2 glycoprotein 1 antibody</p> <p>ADD.BIO 33993 Specific IgG</p>



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Serum unless otherwise specified (cont'd)</p>	<p><u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Specific IgG Parrot</p> <p>Specific IgG Thermoactinomyce vulgaris</p> <p>Specific IgG Insulin Antibody</p> <p>Mast cell tryptase</p> <p>Anti Nuclear Antibody (Hep 2)</p> <p>Liver Autoantibodies</p> <p>Gastric Parietal Cell Antibody</p> <p>DNA (DS) Antibody, Crithidia luciliae, IFA</p> <p>ANCA</p> <p>Adrenal Cortex Antibody</p> <p>Islet cell antibody</p> <p>Skeletal (Striated) Muscle Antibody</p>	<p>Documented procedures & manufacturer's instructions for ThermoScientific Phadia 2500 and 250 analyser (Fluorescence Enzyme Immunoassay) (FEIA) with specific reference to:</p> <p>ADD.BIO 33993 Specific IgG</p> <p>ADD.BIO 5839 Mast Cell Tryptase</p> <p>Documented procedures & manufacturer's instructions for Werfen IL Quantalyser 160 with specific reference to:</p> <p>ADD.BIO 33845 HEP2 ANA</p> <p>ADD.BIO 33847 Composite Block antibodies</p> <p>ADD.BIO 33844 dsDNA Autoantibodies (Crithidia)</p> <p>ADD.BIO 33838</p> <p>INOVA Manual assay Autoantibodies by indirect immunofluorescence(IIF) ADD.BIO 33837 Adrenal Autoantibodies</p> <p>INOVA Manual assay, Autoantibodies by indirect immunofluorescence(IIF) ADD.BIO 33839 Islet Cell Autoantibodies</p> <p>INOVA – Assay indirect Immunofluorescence ADD.BIO 33842 Skin Autoantibodies</p>



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Serum unless otherwise specified (cont'd)</p>	<p><u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Pemphigoid and Pemphigus Antibody</p> <p>Ovarian Antibody</p> <p>Cardiac Muscle Antibody</p> <p>Paraneoplastic Antibody Profile</p> <p>Endomysial Antibody IgA and IgG</p> <p>Neuronal Antibody</p> <p>Liver Antibody</p>	<p>Documented in house methods and manufacturers instructions for</p> <p>INOVA – Assay indirect immunofluorescence Autoantibodies ADD.BIO 33842 Skin Autoantibodies</p> <p>INOVA – Assay indirect immunofluorescence Autoantibodies ADD.BIO 33840 Ovarian Autoantibodies</p> <p>INOVA – Assay indirect immunofluorescence - (IIF) ADD.BIO 33843 Cardiac Muscle Autoantibodies</p> <p>INOVA- Assay indirect immunofluorescence (IIF) ADD.BIO 33924 Paraneoplastic Autoantibodies</p> <p>INOVA – Assay indirect immunofluorescence(IIF) ADD.BIO 1740 Endomysial Autoantibodies</p> <p>Autoantibodies by Immunoblotting and Manufacturer's assay using Euroimmun Blotmaster with specific reference to:</p> <p>ADD.BIO 33950 Paraneoplastic Antibody Immunoblot</p> <p>ADD.BIO 33923 Liver Autoantibodies Line Blot</p>



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Serum unless otherwise specified (cont'd)</p>	<p><u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Myositis Antibodies</p> <p>Scleroderma Antibody Profile</p> <p>Histone Antibody</p> <p>Intrinsic Factor Antibody</p> <p>Glutamic Acid Decarboxylase (GAD) Antibody</p> <p>Acetyl Choline Receptor Antibody</p> <p>IA2 Antibody</p>	<p>Documented in house methods and manufacturer's instructions for</p> <p>Autoantibodies by Immunoblotting and Manufacturer's assay using Euroimmun Blotmaster with specific reference to:</p> <p>ADD.BIO 34223 Anti-Nuclear Antibody(ANA) Myositis Line Blot</p> <p>ADD.BIO 33846 Anti-Nuclear Antibody(ANA) Scleroderma Line Blot</p> <p>ADD.BIO 134 Anti ANA, Nucleosome and Histone Antibody Dot Blot</p> <p>Manufacturer's assay using Dynex DS2 Autoantibodies by ELISA with specific reference to:</p> <p>ADD.BIO 33811 Inova Intrinsic Factor</p> <p>Manufacturers RSR Limited Assay using manual ELISA ADD.BIO 33812 GAD 65 EuroImmune</p> <p>Manufacturers EuroImmune Assay using manual ELISA ADD.BIO 34047 AChR</p> <p>ADD.BIO 4334 Islet IA-2</p>



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Serum unless otherwise specified (cont'd)</p>	<p><u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>Complement Ap100</p> <p>Complement Ch100</p> <p>C1 Inhibitor (Functional)</p> <p>Cryoglobulin screen</p> <p>Complement C3/C4</p> <p>IgA</p> <p>Complement 1 Inhibitor Immunochemical</p> <p>IgG and IgG subclasses</p>	<p>Documented in house methods and manufacturer's instructions for</p> <p>Functional complement assay and Manufacturer's assay Binding site Radial Immunodifusion (RID) manual and SOP ADD.BIO 33849 Alternative Pathway Functional Assay</p> <p>ADD.BIO 33848 Classical Pathway Functional Assay</p> <p>Manufacturers Technoclone Functional complement assay and manual ELISA using SOP ADD.BIO 33855 C1 Functional</p> <p>Protein quantitation using in house method and SOP ADD.BIO 33931 Cryoglobulin</p> <p>Manufacturer's assay using Siemens BNII and Plasma protein quantitation with specific reference to:</p> <p>ADD.BIO 5364 Complement C3 and C4 Quantitation on BNII</p> <p>ADD.BIO 5367 IgA Quantitation on BNII</p> <p>ADD.BIO 5365 C1 Esterase inhibitor (chemical-C1 INH) Quantitation on BNII</p> <p>ADD.BIO 5368 IgG and IgG subclasses quantitation on BNII</p>



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Serum unless otherwise specified (cont'd).</p> <p>Serum and Fluid</p> <p>Serum</p>	<p><u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u></p> <p>IgG Subclasses (1,2,3,4)</p> <p>CRP BN2</p> <p>Caeruloplasmin</p> <p>Beta trace protein</p> <p>Free Light Chains</p> <p>Protein m band quantitation</p>	<p>Documented in house methods and manufacturer's instructions for</p> <p>Manufacturer's assay using Siemens BN2 and Plasma protein quantitation with specific reference to:</p> <p>ADD.BIO 5368 IgG and IgG Subclasses Quantitation on BNII</p> <p>ADD.BIO 5392 High Sensitivity CRP (hsCRP) Quantitation on BNII Analyser</p> <p>ADD.BIO 5366 Caeruloplasmin quantitation on BNII</p> <p>ADD.BIO 5369 Beta Trace Protein Quantitation on BNII</p> <p>ADD.BIO 5393 Serum Free Light Chain Quantitation on BNII Using binding-site assay</p> <p>Manufacturer's assay using Helena V8 Capillary zone protein electrophoresis and using SOP ADD.BIO 5394 Serum Protein Capillary Electrophoresis (Immunodisplacement and Monoclonal Band Quantitation Protein immunofixation</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturers instructions for
Urine		Manufacturer's assay using Helena SAS 3 and 4 using Gel electrophoresis with specific reference to: ADD.BIO 3624 Urine Bence Jones Protein Screen and Quantitation
Urine and serum	i	ADD.BIO 3594 Urine and serum gel immunofixation
Serum unless otherwise specified (cont'd)	Alpha-1 Antitrypsin Phenotype	Manufacturer's assay using Sebia Hydrasys and isoelectric focussing using SOP ADD.BIO 33925 Alpha 1 Antitrypsin (AAT) Phenotype
	Alkaline Phosphatase Isoenzyme	Manufacturer's assay using Sebia Hydrasys and isoelectric and Gel electrophoresis and SOP ADD.BIO 33926 Alkaline Phosphatase Isoenzymes
	C3 Nephritic Factor	Manufacturer's assay using Sebia Hydrasys Gel immunofixation with specific reference to: ADD.BIO 33989 C3 Nephritic Factor
CSF, Serum	Oligoclonal banding	In house manual isoelectric focussing using SOP ADD.BIO 33957 CSF Oligoclonal Banding
Blood	Lymphocyte Phenotype CD3, 4, 8, 19, 56	Manufacturer's assay using BD FacsCanto IIFlow cytometry with specific reference to: ADD.BIO 34090 Lymphocyte Phenotyping on Becton Dickinson FacsCanto II



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturers instructions for
	T Lymph Subset CD3, 4, 8	Manufacturer's assay using BD FacsCanto II Flow cytometry with specific reference to:
	Lymphocyte Phenotyping Extended Panel	ADD.BIO 79 Extended Lymphocyte Immunophenotype
	Alps Screen	ADD.BIO 1748 ALPS Screen
	Freiberg B Cell Panel	Flow cytometric in-house methods using BD FacsCantoII with specific reference to ADD.BIO 3034 Freiburg B Cell Panel
	Neutrophil Oxidative Burst	ADD.BIO 33863 DHR Neutrophil Oxidative Burst Assay
	Cd62 Ligand Shedding	ADD.BIO 33994 CD62 ligand Shedding Assay
		Luminex 200 in house methods using Specific microbial antibodies with specific reference to:
Serum	Serotype Specific APA	ADD.BIO 33991 Serotype Pneumococcal Antibody Multiplex Assay
Serum	Tetanus IgG Antibody	ADD.BIO 608 H.influenzae type b(hib) and Tetanus Multiplexed Antibodies
	Haemophilus influenzae B (HIB) Antibody	
Serum	SARS-CoV-2 (COVID-19) IgG Antibodies to indicate past infection	SOP ADD.BIO.11019 Multiplex assay for the detection of antibodies (IgG) to SARS-CoV-2-N + S antigens.



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HUMAN BODY FLUIDS (cont'd)	<u>Immunology examination activities for the purpose of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturer's instructions for
Blood	TH1 Cytokine Panel	Luminex in house methods using Specific microbial antibodies with specific reference to: Luminex and ELISA in house Cellular activation assays using SOP ADD.BIO 33874 whole blood activation ADD.BIO 33865 Interferon gamma ELISA ADD.BIO 2771 Cytokine antibodies
Serum	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> Quantification of: Alanine Aminotransferase (ALT)	Documented in house methods and manufacturer's instructions for Siemens Advia 2400 Modified IFCC using Tris buffer without PLP using SOP ADD.BIO 34046
Serum, fluid	Aspartate Aminotransferase (AST) Albumin	SOP ADD.BIO.34084 Bromocresol Purple (BCP) dye binding and SOP ADD.BIO.34045
Serum	Alkaline Phosphatase (ALP)	AMP Buffer (IFCC) and SOP ADD.BIO.34069
Serum, urine, fluid	Amylase	Ethylidene blocked PNPG7 and SOP ADD.BIO.34072
Serum	Bicarbonate Bile acid	Enzymatic SOP ADD.BIO.34067 Enzymatic colorimetric SOP ADD.BIO.3730



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis:</u> (cont'd)	
	Quantification of: (cont'd)	Documented in house methods and manufacturer's instructions for
Serum, urine, fluid	Calcium	Siemens Advia 2400 using Cresolphthalein Complexone (CPC) SOP ADD.BIO.34071
Serum, urine	Chloride	Indirect ISE SOP ADD.BIO.34004
Serum, Plasma, urine, fluid	Potassium	SOP.ADD.BIO.34006
Serum, urine, fluid	Sodium	SOP.ADD.BIO.34007
	Creatinine	Enzymatic Creatininase SOP ADD.BIO.34068
Serum	Bilirubin -direct	Vanadate oxidation SOP ADD.BIO.34073
Serum, fluid	Bilirubin -total	SOP ADD.BIO.34070
Serum	GGT	Carboxynitrilide modified IFCC using SOP ADD.BIO 34078
Serum, Plasma, Urine, fluid	Glucose	Hexokinase + G6PD using SOP ADD.BIO 34032
Serum	Iron	Ferrozine using SOP ADD.BIO 4
	Lipase	Colorimetric rate using SOP ADD.BIO 3630
Plasma	Lactate	EXL using Oxidation enzymatic LDH SOP ADD.BIO 4423
Serum, fluid	Lactate dehydrogenase (LDH)	L- > P and SOP ADD.BIO.34083
Serum, Urine	Magnesium	Xylidyl blue and SOP ADD.BIO.34005



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis: (cont'd)</u>	
	Quantification of: (cont'd)	Documented in house methods and manufacturer's instructions for
Serum, Plasma, Urine, fluid	Phosphate	Siemens Advia 2400 using Phosphomolybdate UV SOP ADD.BIO.34087
Serum, Urine, fluid	Total Protein	Biuret Endpoint SOP ADD.BIO.34082
Serum, Urine, fluid	Urea	kinetic urease with GLDH using SOP ADD.BIO 34006
Serum, Urine, fluid	Uric acid	Uricase Peroxidase using SOP ADD.BIO 3681
Serum	CK	NAC IFCC and SOP ADD.BIO 34074
Serum, Fluid	Cholesterol	Cholesterol Oxidase using SOP ADD.BIO 16003
Serum	HDL Cholesterol	SOP ADD.BIO 3608
Serum, Fluid	Triglycerides	Lipase GPO-PAP using SOP ADD.BIO 34079
Serum	Alpha-1-Antitrypsin	Immunoturbidimetric using SOP ADD.BIO 3684
	CRP	Latex Enhanced Immunoturbidimetric using SOP ADD.BIO 3605
	Rheumatoid Factor	SOP ADD.BIO 3699
	B2-Microglobulin	SOP ADD.BIO 3625



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
	Quantification of: (cont'd)	Documented in house methods and manufacturer's instructions for
Serum	Haptoglobin	Siemens Advia 2400
	IgA	Turbidimetric using SOP ADD.BIO 3626
	IgM	PEG-enhanced Turbidimetric SOP ADD BIO 3627
	Transferrin	SOP ADD BIO 3629
Urine	Microalbumin	SOP ADD BIO 3631
Serum	Zinc	SOP ADD.BIO 3682
Plasma	Ammonia	Siemens Dimension EXL 200 using colorimetric using SOP ADD.BIO 33986
Serum	Angiotension Converting Enzyme (ACE)	Enzymatic kinetic using SOP ADD.BIO 34065
Serum, Urine	Osmolality	colorimetric FAPPGG using SOP ADD.BIO 33836
CSF	Xanthochromia	Advanced Micro-Osmometer using Freezing Point using SOP DD.BIO 33998
Serum	LDL-Cholesterol	Cary 100 Bio double beam Spectrophotometry using SOP ADD.BIO 34177
		Calculation using SOP ADD.BIO 7090



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
	Quantification of: (cont'd)	Documented in house methods and manufacturers instructions for
Serum	Non-HDL Cholesterol	Calculation using SOP ADD.BIO 7090
Sweat	Chloride	Sherwood Scientific Limited Chloride analyser model 926S Sweat chloride meter using SOP ADD BIO 33935
Urine	pH	Ph Meter and using SOP ACC BIO 34092
	VMA & HVA	Agilent GC-MS and using SOP ACC BIO 33980
	<u>Therapeutic drug monitoring and Toxicology</u>	
Serum	Salicylate	Siemens Dimension EXL 200 using modified Trinder colorimetric using SOP ADD.BIO 4424
Serum	Paracetamol (Acetaminophen)	enzymatic method and SOP ADD.BIO 34154
Plasma	Ethanol / Alcohol	ADD BIO 34066
Serum	Carbamazepine	using Particle enhanced turbidimetric inhibition immunoassay (PETINIA) technique and SOP ADD.BIO 34196
	Phenobarbitone	ADD BIO 3639
	Phenytoin	ADD.BIO 3640



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
Serum	<u>Therapeutic drug monitoring and Toxicology (cont'd)</u> Theophylline	Documented in house methods and manufacturer's instructions for ADD.BIO 34086
Serum	Digoxin	Siemens Dimension EXL 200 using Immunoassay-turbidimetry and SOP ADD.BIO 34076
Serum	Lithium	enzymatic method and SOP ADD.BIO 3638
Serum	Methotrexate	Homogenous enzyme immunoassay and SOP ADD.BIO 1171
	Valproate	homogenous particle enhanced turbidimetric inhibition immunoassay (PETINIA) technique ADD.BIO 4505
	<u>Antibiotics</u>	
Serum	Amikacin	Homogenous enzyme Immunoassay using SOP ADD.BIO 34133
	Gentamicin	homogenous particle enhanced turbidimetric inhibition immunoassay (PETINIA) technique using SOP ADD.BIO 34075
	Tobramycin	ADD.BIO 34085
	Vancomycin	ADD.BIO 34077



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
Serum	<u>Thyroid Hormones</u> TSH FT4	Documented in house methods and manufacturer's instructions for Siemens Advia Centaur XP using Chemiluminescent immunoassay using SOP ADD BIO 4310 competitive immunoassay direct chemiluminescent using SOP ADD BIO 4307
Serum	<u>Steroid Hormones</u> Cortisol Progesterone Testosterone (male) Oestradiol (E2)	competitive immunoassay direct chemiluminescent using SOP ADD BIO 16016 ADD.BIO 4308 ADD.BIO 4309 competitive chemiluminescent and SOP ADD BIO 142
Serum	<u>Peptide Hormones</u> FSH	two-site sandwich immunoassay direct chemiluminometric technique using SOP ADD BIO 4306
Serum	Prolactin LH	two-site sandwich immunoassay direct chemiluminometric technique using ADD BIO 4354 two-site sandwich immunoassay direct chemiluminometry using SOP ADD BIO 4303



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	Documented in house methods and manufacturers' instructions for
Serum	Folate	Siemens Advia Centaur XP using ADD BIO 4347
	Ferritin	two-site sandwich immunoassay direct chemiluminometry using SOP ADD BIO 4396
	<u>Tumour markers</u>	
Serum	CA125	Siemens Advia Centaur XP using a two-site sandwich immunoassay direct chemiluminometry using SOP ADD BIO 4363
	CA-199	ADD BIO 4364
	CA-153	ADD BIO 4365
	PSA Total	two-site sandwich immunoassay direct chemiluminometry using SOP ADD BIO 1106
	PSA Free	ADD BIO 4398
	HCG	ADD BIO 5403
	AFP	ADD BIO 3700
	CEA	ADD BIO 4366
	Anti-Thyroid Peroxidase Auto antibody (aTPO)	competitive immunoassay chemiluminescent using SOP ADD BIO 3829



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
Serum	<u>Cardiac Markers</u>	
	NT-ProBNP	Siemens Dimension EXL 200 using one-step sandwich chemiluminescent immunoassay using SOP ADD BIO 34044
Serum	Troponin I	homogeneous, sandwich chemiluminescent immunoassay using SOP ADD BIO 34191
	<u>Immunoassay</u>	
Plasma	Procalcitonin	Siemens Advia Centaur XP using one-pass antibody sandwich immunoassay using SOP ADD BIO 820
Plasma	PTH	two-site sandwich immunoassay direct chemiluminometry. Using SOP ADD BIO 4355
Serum	Anti-Thyroglobulin Auto antibody (aTG)	competitive immunoassay direct chemiluminescent using SOP ADD BIO 3703
	250OH-Vitamin D	ADD.BIO 5668
Serum	<u>Calculated Tests</u>	
	eGFR	ADD.BIO 7485
	AKI alert	ADD.BIO 7494
	FIB-4	ADD.BIO 7501
	Transferrin Saturation	ADD.BIO 3631
	Adjusted Calcium	ADD.BIO 34071, ADD.BIO 6643



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
	<u>Calculated Tests Cont.</u>	
Serum	Non-HDL Cholesterol	ADD.BIO 7090
	<u>Metabolic Testing</u>	
Urine	Amino Acid Screen	ADD.BIO 33944 using thin layer chromatography
CSF, Plasma, urine	Amino Acids	Biochrom amino acid analyser ADD.BIO 33965 Quantitative amino acid analysis by ion exchange chromatography
	<u>Metabolic testing (cont'd)</u>	Documented in house methods and manufacturers' instructions for
Urine, Plasma	Creatine & Guanidinoacetate	Tandem mass spectrometer and using SOP ADD.BIO 33973
Plasma	Total Homocysteine & methionine	ADD BIO 33988
Urine	Sulphocysteine	ADD.BIO 34178
Blood spot	Acylcarnitines	Panthera Puncher equipment and Tandem mass spectrometer using ADD.BIO 33971
	Phenylalanine and Tyrosine for PKU monitoring	ADD.BIO 34055 Expanded newborn screening for IEM by TMS
	Galactose-1-Phosphate Uridyl Transferase	Fluoroscan and using SOP ADD.BIO 33936
Plasma	Chitotriosidase	ADD.BIO 33938



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
	<u>Metabolic testing (cont'd)</u>	Documented in house methods and manufacturers' instructions for
Urine	Glycosaminoglycan Typing	Electrophoretic tank using SOP ADD.BIO 33941 two-dimensional glycosaminoglycan electrophoresis
Plasma	Biotinidase	Spectrophotometer using SOP ADD.BIO 33937
Urine	Glycosaminoglycans	ADD.BIO 33939
	PBG Quantitation	ADD.BIO 34178
Plasma	Very Long Chain Fatty Acids	Agilent GC-MS using SOP ADD BIO 33970
Urine	Organic Acids- Qualitative Orotate- Quantitative Methylmalonic Acid- Quantitative	ADD.BIO 33940
Whole Blood	Ciclosporin Sirolimus Tacrolimus (FK506)	Tandem mass spectrometer using SOP ADD BIO 33992
	<u>Endocrinology</u>	
Urine	5HIAA Metanephrines	Tandem mass spectrometer using SOP ADD.BIO BGU by LCMSMS SOP ADD.BIO 470 by LC MSMS using Gilson 215 SPE station
Serum	17 Hydroxy Progesterone	SOP ADD BIO 1988 and ADD.BIO 368 SOP: 5500 Mass Spec maintenance



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
	<u>Endocrinology (cont'd)</u>	Documented in house methods and manufacturer's instructions for
	25 Hydroxy Vitamin D	ADD.BIO 34143
Plasma	Aldosterone	ADD.BIO 3266 SOP: Aldosterone by LC-MS
Serum	Androstenedione	ADD.BIO 2387 SOP: Androstenedione by LC-MS
	Cortisol	ADD.BIO 446 SOP: Mass Spec Serum Cortisol
	Testosterone	ADD.BIO 146 SOP: Testosterone by Tandem Mass Spec
Urine	Free Cortisol	ADD.BIO 181 SOP: Urine Cortisol by Mass Spec ADD.BIO 34215
Plasma	ACTH	Siemens Immulite 2000 and using SOP ADD.BIO 33894 SOP: ACTH by IMMULITE 2000 ADD.BIO 33922 SOP: Immulite 2000 Operation SOP ADD.BIO 33896
Serum	DHEA Sulphate	ADD.BIO 33922
	Growth Hormone	ADD.BIO 33897
	Sex Hormone Binding Globulin	ADD.BIO 16064
	Thyroxine Binding Globulin	ADD.BIO 34221
	Erythropoietin	ADD.BIO 6636
	Thyroid Stimulating Immunoglobulins	ADD.BIO 6337



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
	<u>Endocrinology (cont'd)</u>	Documented in house methods and manufacturer's instructions for
	<u>Antenatal & Newborn Screening</u>	Documented in-house methods to meet the requirements of the Foetal Anomaly Screening Programme defined in the July 2018 ' NHS Foetal Anomaly Screening Programme: laboratory QA evidence requirements'
	Free B HCG (DOWNS 1ST Trimester)	Perkin Elmer AutoDELFIA using SOP ADD.BIO 16036 AutoDELFIA maintenance and SOP ADD.BIO 16026 AutoDELFIA Operation ADD.BIO 33901 SOP: freeBhCG DOWNS
	PAPP-A (DOWNS 1ST Trimester)	ADD.BIO 33900
	Free beta hCG Subunit (Tumour marker)	ADD.BIO 16048
Serum	Free T4	ADD.BIO 16045
	TOTAL T4	SOP ADD.BIO 16036
	TSH	ADD.BIO 16068
	Intact HCG (DOWNS 2nd Trimester)	ADD.BIO 16047
	Intact hCG (Tumour marker)	ADD.BIO 16048
	AFP (DOWNS 2nd Trimester)	ADD.BIO 33905
Serum	Unconjugated Estriol (Down's 2nd Trimester)	ADD.BIO 33906
	High Sensitivity PSA	ADD.BIO 16059



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u>	
	<u>Endocrinology (cont'd)</u>	Documented in house methods and manufacturer's instructions for
Faeces	Calprotectin	Dynex DS2 using SOP ADD.BIO 2935 DS2 ELISA Processor ADD.BIO 34219 SOP: Faecal Calprotectin
	Elastase	V-MAX plate reader using SOP ADD.BIO 16013
Plasma	Metanephrines	ADD.BIO 34064
Whole blood	HbA1c	Tosoh G8 and using SOP ADD.BIO 2223
	HbA1c	Siemens Dimension EXL Immunoassay and using SOP ADD.BIO 2222
Serum	IGF 1	Diasorin Liaison using SOP ADD.BIO 2260 SOP: CBAL Diasorin Liaison XL Routine Use ADD.BIO 2081 SOP: DiaSorin Liaison IGF1
Lithium Heparin Plasma (serum)	Insulin C-Peptide	SOP ADD.BIO 16090 SOP ADD.BIO.16020
Serum	Renin (immunoassay)	ADD.BIO 16062
	Inhibin (DOWNS 2nd Trimester)	Beckman Access and using SOP ADD.BIO 2809 SOP: Access 2 Operation and Maintenance and ADD.BIO 2838 SOP: Inhibin A for Down's screening



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Serum</p> <p>New-born Blood spot</p>	<p><u>Biochemistry examination activities for the purposes of clinical diagnosis (cont'd)</u></p> <p><u>Endocrinology (cont'd)</u></p> <p>Thyroglobulin</p> <p>Macro Prolactin studies</p> <p><u>New born blood spot screening</u></p> <p>Screening for CF using immune-reactive trypsinogen</p> <p>Screening for Congenital Hypothyroidism using Thyroid Stimulating Hormone</p> <p>Screening for IMDs phenylalanine</p> <p>Tyrosine Leucines Methionine Octanoylcarnitine Decanoylcarnitine Isovalerylcarnitine Glutaryl carnitine</p> <p>Screening for Sickle Cell Disorders</p>	<p>Documented in house methods and manufacturer's instructions for</p> <p>LKB Gamma Counter and using SOP ADD.BIO 16067 SOP: Thyroglobulin</p> <p>Siemens Centaur and using SOP ADD.BIO 5331 SOP: Macro prolactin studies</p> <p>Documented in-house methods to meet the requirements of the Newborn Blood Spot Screening Programme defined in the July 2018 ' NHS Newborn Blood Spot Screening Programme: laboratory QA evidence requirements'</p> <p>Panthera Puncher and GSP and using SOP ADD.BIO 3613 Measurement of bloodspot IRT by GSP</p> <p>SOP ADD.BIO 3614</p> <p>Tandem mass spectrometry and using SOP ADD.BIO 34055 Expanded new-born screening for IEM by TMS</p> <p>Bio-Rad Variant, HPLC and using SOP ADD.BIO 33983</p>
END		