


Schedule of Accreditation

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United Kingdom Accreditation Service

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

 <p>9067 Accredited to ISO 15189:2012</p>	<p align="center">Synnovis Analytics LLP</p> <p align="center">Issue No: 013 Issue date: 14 July 2023</p>	
	<p>Biochemistry - Blood Sciences Laboratory Ground Floor Bessemer Wing King's College Hospital Denmark Hill London SE5 9RS</p>	<p>Contact: Angela Menezes Tel: +44 (0) 203 299 4141 E-Mail: angela.menezes@nhs.net Website: www.synnovis.co.uk</p>
<p align="center">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 (unless stated otherwise)</p> <p>and Urine</p> <p>Urine only</p> <p>and Urine</p> <p>and Urine</p> <p>and Urine</p> <p>and Urine</p> <p>Plasma</p> <p>and Cerebrospinal Fluid (CSF)</p>	<p><u>Biochemistry examination activities for the purpose of clinical diagnosis</u></p> <p><u>Blood Sciences Laboratory</u></p> <p>Albumin</p> <p>Albumin : Creatinine ratio (ACR)</p> <p>Alkaline Phosphatase</p> <p>Alanine Transaminase</p> <p>Amikacin</p> <p>Ammonia</p> <p>Amylase</p> <p>Angiotensin Converting Enzyme</p> <p>Aspartate Amino Transaminase</p> <p>Bilirubin - Conjugated</p> <p>Bilirubin - Total</p> <p>Caeruloplasmin</p> <p>Calcium</p> <p>Adjusted Calcium</p> <p>Carbamazepine</p> <p>Creatine Kinase</p> <p>Creatinine</p> <p>Creatinine Clearance</p> <p>C-Reactive Protein CRP</p> <p>C3/C4 Complement</p> <p>Cystatin C</p> <p>Digoxin</p> <p>eGFR</p> <p>Ethanol</p> <p>Gamma Glutamyl Transferase (GGT)</p> <p>Globulins</p> <p>Glucose</p> <p>Haptoglobin</p> <p>HDL Cholesterol</p> <p>Immunoglobulins A,G,M</p>	<p><u>In house documented methods incorporating manufacturers' instructions as required</u></p> <p>Automated using: Roche Cobas 8000 – c702 module, spectrophotometry: LP-BS-C8000 by calculation</p> <p>by calculation</p> <p>by calculation</p> <p>by calculation</p> <p>by calculation</p> <p>by calculation</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>
Serum/Plasma (unless stated otherwise)(cont'd)	<u>Blood Sciences Laboratory (cont'd)</u>	Automated using: Roche Cobas 8000 – c702 module, spectrophotometry: LP-BS-C8000
and CSF	Iron Lactate Lactate Dehydrogenase (LDH) Lipase Lithium Low Density Lipoprotein (LDL) Cholesterol Magnesium Non-High Density Lipoprotein (non-HDL) Cholesterol Pancreatic Amylase Paracetamol Phenobarbitone Phenytoin Inorganic Phosphate Protein : Creatinine ratio (PCR) Rheumatoid Factor Salicylate Theophylline Total Iron Binding Capacity (TIBC) Total Bile Acids Total Protein Triglyceride Tobramycin Total CO2 (Bicarbonate)	by calculation
and Urine		by calculation
and Urine Urine only		by calculation
and Urine and Urine Urine and CSF only	Urea Urate Protein Valproate Cholesterol	by calculation
Serum/Plasma and Urine	ISEs: Sodium Potassium Chloride	Automated using: Roche Cobas 8000 – ISE module, Potentiometry: LP-BS-C8000
Serum/Plasma	Alpha-Fetoprotein (AFP) Carcino-Embryonic Antigen (CEA) Cortisol Oestradiol Follicle Stimulating Hormone (FSH)	Automated using: Roche Cobas 8000 – e801 module, Immunoassay: LP-BS-C8000



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>
	<u>Blood Sciences Laboratory (cont'd)</u>	
Serum/Plasma (cont'd)	Human Chorionic Gonadotrophin (hCG)	Automated using: Roche Cobas 8000 – e801 module, Immunoassay: LP-BS-C8000
Blood	Luteinising Hormone (LH)	
Blood	Progesterone	
	Procalcitonin	
	Prolactin	
	Prostate Specific Antigen (PSA)	
	Free Thyroxine (FT4)	
	Free Triiodothyronine (FT3)	
	Sex Hormone Binding Globulin (SHBG)	
Serum	Soluble Transferrin Receptor	STR Assay using immunoturbidimetry
	Testosterone	
	Thyroid Stimulating Hormone (TSH)	
	Vitamin D	
	Ferritin	
	Vitamin B12	
	Folate	
	Vancomycin	
	Gentamicin	
	Troponin T (Total)	
	Parathyroid Hormone (PTHi)	
	CA125	
	Anti-Thyroid Peroxidase Antibodies	
Blood	Haemoglobin A1c (HbA1c)	Automated using: Roche Cobas 513 Turbidimetric Inhibition Immunoassay LP-BS-CB0012



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required
Blood Pleural fluid	Blood Sciences Laboratory (cont'd)	ABL 90 Flex Blood Gas analyser using LP-BS-ABL90 and measurement principle stated:
	pH	Potentiometry
	pCO ₂	
	K ⁺	
	Na ⁺	
	Cl ⁻	
	cLac	Amperometry
	pO ₂	Optical Density
	ctHb	Spectrophotometry
	sO ₂	
	FO ₂ Hb	
	FCOHb	
	FHHb	
	FMetHb	
	FHbf	
CSF	Xanthochromia	UVIKON XS using Spectrometry: LP-BS-CB005
Serum	Osmolality	3320 Osmometer using Depression of Freezing Point: LP-BS-CB006
Urine	Diabetic Laboratory	Menarini 9210, using boronate affinity chromatography: LP-CB-DC-HBA1C
Blood	Haemoglobin A1c	Siemens Clinitek Status urinalysis analyser: LP-CB-DC-STATUS PLUS
Urine	Urinalysis (glucose, bilirubin, ketones, blood, pH, protein, urobilinogen, nitrite, leucocyte)	Siemens Clinitek Status urinalysis analyser: LP-CB-DC-STATUS PLUS
Urine	hCG (Pregnancy testing)	Siemens Clinitek Status urinalysis analyser: LP-CB-DC-STATUS PLUS



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required
	<u>Gut Permeability Laboratory</u>	
Faeces	Elastase	Diasorin immunoassay on the Liaison XL analyser: LP-CB-GI-LXLFELA
Faeces	Calprotectin	LP-CB-GI-LXLCALP
	<u>Immunochemistry Laboratory</u>	
Blood	Alpha-1-antitrypsin phenotype	Isoelectric focusing using Sebia on the Hydrasys analyser: Hydragel A1AT assay LP-CB-IM-AAT
	Alkaline phosphatase isoenzymes	Hydragel ISO-PAL LP-CB-IM-ALPI
Nasal / ear fluid	Beta-2-transferrin	Hydragel 6 B2 Transferrin(e) assay LP-CB-IM-CTAU
Blood CSF	Oligoclonal bands	Hydragel 9 COGB assay LP-CB-IM-COGB
Blood	Adrenocorticotrophic hormone	Siemens immunoassay on the Immulite XPi analyser: LP-CB-IM-ACTH LP-CB-IM-ANDS LP-CB-IM-ATG LP-CB-IM-IGFBP-3
	Thyroglobulin autoantibodies	LP-CB-IM-CA199
	Insulin like growth factor binding protein-3	LP-CB-IM-CPEP
	Carbohydrate antigen 19-9	LP-CB-IM-XPIDHEAS
	C-peptide	LP-CB-IM-EPO
	Dehydroepiandrosterone sulphate	LP-CB-IM-GH
	Erythropoietin	LP-CB-IM-INS
	Growth hormone	LP-CB-IM-TG
	Insulin	
	Thyroglobulin	



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Blood	Immunochemistry Laboratory (cont'd)	
EDTA plasma	Aldosterone Calcitonin Insulin like growth factor-1 S-100 protein Renin	Diasorin immunoassay on the Liaison XL analyser: LP-CB-IM-ALDO LP-CB-IM-CALC LP-CB-IM-IGF-1 LP-CB-IM-S100 LP-CB-IM-Renin
Blood	Macroprolactin	PEG precipitation followed by Prolactin immunoassay on the Roche Cobas e801: LP-CB-IM-MPROL
Blood	Aminoterminal propeptide of type III procollagen	Orion Diagnostics P3NP radioactive assay: LP-CB-IM-P3NP
Urine	N-telopeptides of type 1 collagen	Manual Osteomark Urine NTx ELISA and Bio-Tek 800 TS plate reader: LP-CB-IM NTX
Urine	<u>Porphyryns Laboratory</u>	
Urine	5-aminolevulinic acid and porphobilinogen	Ion exchange chromatography separation / colourimetric spectrophotometry using: Bio-Rad ALA-PBG Column test kit and Perkin Elmer Lambda 35 UV/Vis spectrometer LP-CB-POR-ALAPBG



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required
	Porphyryns Laboratory	
Blood	Hydroxymethylbilane synthase	Fluorescence spectroscopy using: Perkin Elmer LS-45 luminescence spectrometer LP-CB-POR-HMBS
Urine	Porphobilinogen	Ion exchange chromatography separation / colourimetric spectrophotometry (quantitative) using: Bio-Rad Column test kit and Perkin Elmer Lambda 35 UV/Vis spectrometer: LP-CB-POR-URGPBG
Blood	Total plasma porphyrins (qualitative) Free and zinc protoporphyrin	Fluorescence spectroscopy using: Perkin Elmer LS-45 luminescence spectrometer LP-CB-POR-PORP LP-CB-POR-PROTO
Urine, Faeces	Porphyryn fractionation	High performance liquid chromatography with fluorescence detection: ThermoFisher Ultimate 3000 HPLC with fluorescence detector LP-CB-POR-HPLC
Urine, Faeces	Total urine/faecal porphyrins	Spectrophotometry using: Perkin Elmer Lambda 35 spectrophotometer LP-CB-POR-TOTAL



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required
	<u>Metabolic Laboratory</u>	
Blood	Carbohydrate deficient transferrin	Capillary electrophoresis using the Sebia Capillarys 2 analyser LP-CB-SI-CDT
Synovial fluid	Crystals of: Monosodium urate Calcium pyrophosphate	Polarising light microscopy: LP-CB-SI-CRYSTALS
Urine	Ethyl glucuronide Ethyl sulphate	Hypercarb chromatography / mass spectrometry using: SCIEX API 3200 mass spectrometer / Jasco HPLC LP-CB-SI-ETGS
Urine and serum	Fluoride	Ion selective electrode: EDT Fluoride ISE electrode LP-CB-SI-FLUORIDE
Urine	Metanephrine Normetanephrine 3-Methoxytyramine 5-Hydroxyindoleacetic acid	TurboFlow chromatography / mass spectrometry: LP-CB-SI-UMETS-LCMS/MS LP-CB-SI-5HIAA-LC-MS/MS
Urine		Protein precipitation, manual method:
		Macroduct Advanced Sweat Collection device and advanced 3710 Ionophoresis system using: Sherwood Scientific 926 MK II Chloride Analyser
Sweat	Chloride	LP-CB-SI-SWEAT
Faeces	Haemoglobin (quantitative)	OC Sensor IO faecal immunochemical test: LP-CB-GI-Quantitative FIT



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	<u>Metabolic Laboratory</u>	
Urine	Cortisol	Reverse phase chromatography/mass spectrometry using: SCIEX API 3200 mass spectrometer / Jasco HPLC LP-CB-IM-UCORI
Urine	<u>Steroids Laboratory</u>	
	Androsterone Aetiocholanolone DHA 11-Oxoetiocholanolone 11 β -Hydroxyandrosterone 11 β -Hydroxyetiocholanolone 16 α -Hydroxy DHA Pregnenetriol Pregnenetriol Androstenedione Tetrahydrocortisone Tetrahydro-11-dehydrocorticosterone	Sample derivatisation / gas chromatography mass spectroscopy using: Perkin Elmer GC-MS LP-CB-ST-USP1 LP-CB-ST-USP2
Urine	Tetrahydrocorticosterone <i>allo</i> -Tetrahydrocorticosterone Tetrahydrocortisol <i>allo</i> -Tetrahydrocortisol α -Cortolone β -Cortolone + β -cortol α -Cortol Total 11-deoxy-17-oxosteroids Total corticosterone metabolites Total cortisol metabolites	Sample derivatisation / gas chromatography mass spectroscopy using: Perkin Elmer GC-MS LP-CB-ST-USP1 LP-CB-ST-USP2
Serum/Plasma	Androstenedione Cortisol 11-deoxycortisol 11-deoxycorticosterone (DOC) 17-Hydroxyprogesterone Dihydrotestosterone (DHT) Testosterone	Liquid chromatography-tandem mass spectrometry using: Agilent 1290-6495 LC-MS/MS LP-CB-ST-Serum Steroids6495 LP-CB-ST-DHTand T



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HUMAN BODY FLUIDS (cont'd)	<u>Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)</u>	<u>In house documented methods incorporating manufacturers' instructions as required</u>
Plasma	<u>Toxicology Laboratory</u> Clozapine & Norclozapine	Tecan Freedom EVO LC-MS/MS LP-CB-TOX-037
Plasma	Combined antipsychotics: Olanzapine Amisulpride Aripiprazole & dehydroaripiprazole Risperidone & 9-hydroxyrisperidone Sulpiride Quetiapine and metabolites	Liquid-liquid extraction and LC-MS/MS using: Jasco XLC HPLC system and Thermo TSQ Quantum MS/MS LP-CB-TOX-055 LP-CB-TOX-062
Plasma/Serum	Triazole antifungals: Itraconazole & hydroxyitraconazole Voriconazole Posaconazole Fluconazole Tyrosine Kinase Inhibitors: Imatinib & norimatinib Dasatinib Nilotinib	LC-MS/MS using: Agilent 6460 LC-MS/MS LP-CB-TOX-085 LP-CB-TOX-084
Urine	Urine Drug Screen: Amphetamine, Metamphetamine, MDMA Cocaine metabolite (benzoylecgonine) Methadone & metabolite (EDDP) Morphine, codeine, 6-AM, dihydrocodeine Cannabis	LC-HR-MS using: Dionex Ultimate 3000 LC, Vanquish Flex LC and Q Exactive MS LP-CB-TOX-074
Urine	Benzodiazepine group Buprenorphine and metabolites Ketamine and metabolite Tramadol and metabolites Mephedrone Pregabalin Gabapentin	LP-CB-TOX-003 LP-CB-TOX-004 LP-CB-TOX-074 LP-CB-TOX-075 LP-CB-TOX-076 LP-CB-TOX-077 LP-CB-TOX-082 LP-CB-TOX-082



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HUMAN BODY FLUIDS (cont'd)	Biochemistry examination activities for the purpose of clinical diagnosis (cont'd)	In house documented methods incorporating manufacturers' instructions as required
	<u>Trace Element Laboratory (Toxicology)</u>	
Urine	Barbiturate group	Immunoassays using: Indiko Plus Immunoassay LP-CB-TOX-002
Urine	Creatinine	Jaffe reaction LP-CB-TOX-025
Plasma	Lamotrigine	Turbidimetric assay LP-CB-TOX-046
Serum/Plasma	Teicoplanin	Immunoassay LP-CB-TOX-086
Blood	Copper Zinc Selenium Strontium Manganese Cobalt Chromium Aluminium Nickel	Inductively Coupled Plasma Mass Spectrometry using: ICAP-Q ICP-MS LP-CB-TE-Ser/PI-ICPMS LP-CB-TE-AL/ICPMS LP-CB-TE-iCAPQ LP-CB-TE-ICPMS
Whole Blood (EDTA/Litsep)	Arsenic Cobalt Chromium Manganese Cadmium Lead, Thallium Mercury	Inductively Coupled Plasma Mass Spectrometry using: ICAP-Q ICP-MS LP-CB-TE-Bld-ICPMS LP-CB-TE-URINE-BLD



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Urine	Cadmium Lead Thallium Arsenic Cobalt Chromium Iron Nickel Zinc Mercury Copper (pre- and post-penicillamine)	Inductively Coupled Plasma Mass Spectrometry using: ICAP-Q ICP-MS LP-CB-TE-URI-CPMS LP-CB-TE-URI-ICPMS LP-CB-TE-urine/Bld
Biopsy - Liver	Copper Iron	LP-CB-TE-TISSUE
END		