


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO 15189:2022</b>	<b>Synnovis Analytics LLP</b>  <b>Issue No: 019   Issue date: 19 November 2024</b>	
	<b>Biochemical Sciences</b> <b>4<sup>th</sup> &amp; 5<sup>th</sup> Floors North Wing</b> <b>St. Thomas' Hospital</b> <b>Westminster Bridge Road</b> <b>London</b> <b>SE1 7EH</b>	<b>Contact: Dr Rachel Carling</b> <b>Tel: +44 (0) 2071881283</b> <b>Fax: +44 (0) 2071881269</b> <b>E-Mail: rachel.carling@gstt.nhs.uk</b> <b>Website: www.synnovis.co.uk</b>

**Testing performed by the Organisation at the locations specified below**

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details		Activity	Location code
<b>Address</b> Biochemical Sciences 4 <sup>th</sup> & 5 <sup>th</sup> Floor, North Wing St. Thomas' Hospital Westminster Bridge Road London SE1 7EH	<b>Local contact</b> Dr Rachel Carling (As above)	Newborn bloodspot screening Inherited metabolic diseases Purine research Reference Chemistry Mass spectrometry	ST
Mass Spectrometry Satellite Laboratory King's College Hospital Denmark Hill London SE5 9RS	Dr Rachel Carling (As above)	Mass spectrometry	KCH



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HUMAN BODY FLUIDS  Serum/plasma Whole blood Dried bloodspot Urine Cerebrospinal fluid Faeces	<u>Biochemistry examination activities for the purpose of clinical diagnosis</u>  Biochemical compounds (qualitative & quantitative)	In-house documented methods incorporating manufacturers' instructions as required  Flexible scope protocols: SLM-P-3 Management of UKAS Flexible Scope using: Mass Spectrometry technologies: <ul style="list-style-type: none"><li>• Single quadrupole mass spectrometry (MS)</li><li>• Triple quadrupole mass spectrometry (MS/MS) and associated technologies:</li><li>• Flow injection analysis (FIA)</li><li>• Liquid chromatography (LC)</li><li>• Ultra-high performance liquid chromatography (UHPLC)</li><li>• Gas chromatography (GC)</li><li>• Automated sample preparation technologies</li></ul> Flexible scope limited to the application of these methods for the detection of additional biochemical compounds listed in SLM-QF-139 Biochemical Sciences record of changes within flexible scope available on the Synnovis website	ST KCH



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HUMAN BODY FLUIDS (cont'd)	<u>Newborn Bloodspot screening</u>	In-house documented methods incorporating manufacturers' instructions as required	
		Documented in-house methods to meet the requirements of the Newborn blood spot screening programme as defined in the laboratory QA evidence requirements see also SLM-QF-139	ST
Bloodspot	Newborn Screening for SCID (Severe Combined Immune Deficiency)	qPCR using QuantStudio5 DX SLMN-LP-41	ST
Bloodspot	C8 C10 Phenylalanine Tyrosine C5DC C5 Methionine Leucine	Sciex 4500 FIA-MSMS with Exion UPLC (included within flexible scope protocols SLM-P-3) using: SLMN-LP-25 Expanded Screening by LC-MSMS	ST
Bloodspot	Total homocysteine	Waters Premier & TQD MSMS (included within flexible scope protocols SLM-P-3) using: SLMN-LP-27 Bloodspot homocysteine	ST
Bloodspot	IRT TSH	Perkin Elmer AutoDELFIA (Immunoassay) using: SLMN-LP-36 Bloodspot IRT analysis SLMN-LP-37 Bloodspot TSH analysis	ST
Bloodspot	Haemoglobin variants S,C,D,E,O-Arab	Waters FIA-MSMS (Xevo TQ-S) (included within flexible scope protocols SLM-P-3) using: SLMN-LP-39 Bloodspot Sickle Screening by FIA-MSMS	ST



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HUMAN BODY FLUIDS (cont'd)	<u>Inherited Metabolic Diseases</u>	In-house documented methods incorporating manufacturers' instructions as required	
Urine	Organic acids (qualitative interpretation of profile) MMA Orotic acid	ShimadzuGCMS using: SLMM-LP-35 Urine Organic acid analysis SLMM-LP-54 Interpretation and Reporting of UORG	ST
Plasma	Very Long Chain Fatty Acids: Phytanate Pristanate C22 C24 C26	ShimadzuGCMS using: SLMM-LP-19 Determination of VLCFA by GCMS SLMM-LP-61 Interpretation and reporting of VLCA	ST
Cerebrospinal fluid (CSF) Urine	Amino Acids: Taurine Threonine Serine Glutamine Glutamate Proline Glycine Alanine Citrulline Cystine Phenylalanine Tyrosine Isoleucine Leucine Valine Methionine Lysine Histidine Ornithine Arginine	Biochrom Ion Exchange amino acid analysers using: SLMM-LP-38 Amino acid preparation and analysis SLMM-LP-56 Interpretation and reporting of AA	ST



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HUMAN BODY FLUIDS (cont'd)	<u>Inherited Metabolic Diseases</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
Plasma / CSF	Glycine ratio	Calculated ratio from: Biochrom Ion Exchange CSF result using: SLMM-LP-38 Amino acid preparation and analysis and Waters MSMS (Xevo TS-S with Acquity LC Plasma result (included within flexible scope protocols SLM-P-3) using: SLMM-LP-52 Plasma AA by LC-MSMS	ST
Urine Plasma Blood	<u>Purine Research Laboratory</u>  Purine and pyrimidine (qualitative interpretation of profile) including quantitative: Uracil Psuedouridine Uric Acid Hypoxanthine Xanthine Thymine Succinyladenosine SAICAr Deoxyuridine Thymidine Guanosine Inosine Deoxyguanosine Deoxyinosine Adenine Deoxyadenosine	In-house documented methods incorporating manufacturers' instructions as required  Waters Acquity UPLC with PDA Perkin Elmer Spectrophotometer Lambda 35 using: SLMP-LP-62 Purine and pyrimidine metabolites in urine and plasma SLMP-LP-51 Use of Waters UPLC SLMP-LP-20 –Measurement of Absorbance using the Lambda 35 Spectrophotometer	ST



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HUMAN BODY FLUIDS (cont'd)	<u>Purine Research Laboratory (cont'd)</u>	In-house documented methods incorporating manufacturers' instructions as required	
Blood	Thioguanine / Methylmercaptapurine	Waters Acquity UPLC with PDA using: SLMP-LP-17. Assay of TGN in whole blood SLMP-LP-51 Use of Waters UPLC	ST
Blood	DPD-5FU	Manual or QIAcube automated DNA extraction and Agilent AriaMx Real time PCR using: SLMP-LP-19 Reception, processing and storage of samples SLMP-LP-6. Extraction of DNA from blood SLMP-LP-72 Alkaline extraction of human DNA from whole blood SLMP-LP-45 TaqMan assay for DPYD variants SLMP-LP-48 Purine Reporting	ST
Blood	TPMT genotyping	Manual or QIAcube automated DNA extraction and Agilent AriaMx Real time PCR using: SLMP-LP-6 Extraction of DNA from blood SLMP-LP-72 Alkaline extraction of human DNA from whole blood SLMP-LP-52 TaqMan assay for TPMT genotyping	ST



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HUMAN BODY FLUIDS (cont'd)	<u>Purine Research Laboratory (cont'd)</u>	In-house documented methods incorporating manufacturers' instructions as required	ST
Blood	Purine Disorder Mutation analysis HPRT mutation analysis <u>Genes</u> DPYS DPYD PNP ADSL APRT Gephyrin MOCS1 MOCS2 PRPS1 Thymidine Phosphorylase ADA HNF1B REN SUOX UMOD UMPS BCHE	Manual or QIAcube automated DNA extraction and ABI PRISM 3130xl Genetic Analyser using: SLMP-LP-6. Extraction of DNA from blood SLMP-LP-12. PCR SLMP-LP-7 DNA sequencing SLMP-LP-28 HPRT mutation analysis SLMP-LP-31 DPYS gene sequencing SLMP-LP-32 DPYD gene sequencing SLMP-LP-33 PNP gene sequencing SLMP-LP-34 ADSL gene sequencing SLMP-LP-35 APRT gene sequencing SLMP-LP-36 Gephyrin gene sequencing SLMP-LP-37 MOCS1 gene sequencing SLMP-LP-38 MOCS2 gene sequencing SLMP-LP-40 PRPS1 gene sequencing SLMP-LP-41 Thymidine Phosphorylase sequencing SLMP-LP-43 ADA gene sequencing SLMP-LP-55 HNF1B gene sequencing SLMP-LP-SLMP-LP-56 REN gene sequencing SLMP-LP-57 SUOX gene sequencing SLMP-LP-58 UMOD gene sequencing SLMP-LP-59 UMPS gene sequencing SLM-LP-63 Agarose gel electrophoresis SLMP-LP-69 BCHE Sequencing	



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HUMAN BODY FLUIDS (cont'd)	<u>Reference Chemistry</u>	In-house documented methods incorporating manufacturers' instructions as required	
Serum	Paraprotein quantitation Alkaline phosphatase isoenzyme Lipoprotein	Electrophoresis, Immunotyping (serum only), & Immunofixation using: Sebia Capillarys Sebia Hydrasys using: SLMC-LP-22 Procedure for Sebia Capillarys Electrophoresis & Immunotyping SLMC-LP-23 Protein Electrophoresis and Immunofixation using Sebia Hydrasys Automated Electrophoresis System SLMC-LP-35 Measurement of Serum Lipoproteins using Sebia Hydrasys Automated Electrophoresis system SLMC-LP-4 Alkaline Phosphatase Isoenzymes	ST
Serum	Protein quantitation ( $\beta$ -2 microglobulin, serum free Kappa and Lambda light chains and Immunoglobulin subclasses IgG1, IgG2, IgG3, IgG4)	Optilite automated bench top turbidimeter using turbidimetry with immunochemical detection SLMC-LP-49 Optilite	ST
Renal Calculi	Qualitative measurement of inorganic and organic compounds	Nicolet iS5 FT IR Spectrometer using: SLMC-LP-41 Stone (calculi) analysis using Nicolet iS5 Mid FT-IR spectrometer SLMC-LP-42 Visual guide Stone (calculi) analysis using Nicolet iS5 Mid FT-IR spectrometer	ST
Serum Plasma	Semi quantitative determination of Cryoglobulins: Cryoglobulin precipitate as % of serum	Wintrobe haematocrit (Cryocrit) tubes using: SLMC-LP-10 Cryoglobulin Analysis	ST





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HUMAN BODY FLUIDS (cont'd)	<u>Reference Chemistry</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required	
Sweat	Chloride	Macroduct Sweat Collection System Corning 925 Chloride Analyser Coulometry using: SLMC-LP-24 Sweat Testing for Cystic Fibrosis	ST
Serum	Anti-TNF drugs: Adalimumab and anti-drug antibodies Adalimumab biosimilar trade name Humira and anti-drug antibodies Infliximab and anti-infliximab antibodies	LISA-TRACKER ELISA analysis Dynex DS2 using: SLMC-LP-48 LISA-TRACKER ELISA analysis using the Dynex DS2	ST
END			