


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <b>Accredited to ISO 15189:2012</b>	<b>Synnovis Analytics LLP</b>  <b>Issue No: 017   Issue date: 10 October 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 at the above address only**

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<b>HUMAN BODY FLUIDS</b>  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



9093  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Synnovis Analytics LLP**  
**Issue No: 017 Issue date: 10 October 2024**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>Newborn Bloodspot screening</u>	In-house documented methods incorporating manufacturers' instructions as required
Bloodspot	Newborn Screening for SCID (Severe Combined Immune Deficiency)	Documented in-house methods to meet the requirements of the Newborn blood spot screening programme as defined in the July 2018 Newborn blood spot screening: Laboratory QA evidence requirements see also SLM-QF-139
Bloodspot	C8 C10 Phenylalanine Tyrosine C5DC C5 Methionine Leucine	qPCR using QuantStudio5 DX SLMN-LP-41
Bloodspot	Total homocysteine	Sciex 4500 FIA-MSMS with Exion UPLC (included within flexible scope protocols SLM-P-3) using: SLMN-LP-25 Expanded Screening by LC-MSMS
Bloodspot	IRT TSH	Waters Premier & TQD MSMS (included within flexible scope protocols SLM-P-3) using: SLMN-LP-27 Bloodspot homocysteine
Bloodspot	Haemoglobin variants S,C,D,E,O-Arab	Perkin Elmer AutoDELFIA (Immunoassay) using: SLMN-LP-36 Bloodspot IRT analysis SLMN-LP-37 Bloodspot TSH analysis
Bloodspot		Waters FIA-MSMS (Xevo TQ-S) (included within flexible scope protocols SLM-P-3) using: SLMN-LP-39 Bloodspot Sickle Screening by FIA-MSMS



9093  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Synnovis Analytics LLP**  
**Issue No: 017 Issue date: 10 October 2024**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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
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
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



9093  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Synnovis Analytics LLP**  
**Issue No: 017 Issue date: 10 October 2024**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>Inherited Metabolic Diseases (cont'd)</u>	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
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



9093  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Synnovis Analytics LLP**  
**Issue No: 017 Issue date: 10 October 2024**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>Purine Research Laboratory</u> (cont'd)	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
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
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



9093  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Synnovis Analytics LLP**  
**Issue No: 017 Issue date: 10 October 2024**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>Purine Research Laboratory</u> (cont'd)	In-house documented methods incorporating manufacturers' instructions as required
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 3500XL 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



9093  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Synnovis Analytics LLP**  
**Issue No: 017 Issue date: 10 October 2024**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	<u>Reference Chemistry</u>	In-house documented methods incorporating manufacturers' instructions as required
Serum	Paraprotein quantitation 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
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
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
Serum Plasma	Semi quantitative determination of Cryoglobulins: Cryoglobulin precipitate as % of serum	Wintrobe haematocrit (Cryocrit) tubes using: SLMC-LP-10 Cryoglobulin Analysis



9093  
Accredited to  
ISO 15189:2012

**Schedule of Accreditation**  
issued by  
**United Kingdom Accreditation Service**  
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

**Synnovis Analytics LLP**  
**Issue No: 017 Issue date: 10 October 2024**

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
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
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
END		