


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>8692</p> <p>Accredited to ISO 15189:2022</p>	<p>Great Ormond Street Hospital for Children NHS Foundation Trust</p> <p>Issue No: 009 Issue date: 03 February 2026</p>	
	<p>Chemical Pathology Level 5 Camelia Botnar Laboratories London WC21N 3JH</p>	<p>Contact: Helen Aitkenhead Tel: +44 (0) 20 7813 8318 Fax: +44 (0) 20 7829 8624 E-Mail: Helen.Aitkenhead@gosh.nhs.uk Website: https://www.gosh.nhs.uk/wards-and-departments/departments/laboratory-medicine/</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	<p><u>Routine Biochemistry examination activities for the purposes of clinical diagnosis:</u></p> <p>Quantitative determination of:</p>	<p>Documented in house methods and manufacturers instructions for</p>
Serum / plasma / urine	<p>Sodium Potassium Chloride Urea Creatinine Urate Calcium Phosphate Total Protein Magnesium</p>	<p>Ortho Vitros XT 7600 Microslide using documented procedure CSOP A058</p> <p>Dry slide technology</p>
Serum / plasma	<p>Albumin Alanine transaminase (ALT) Alkaline Phosphatase (ALP) Ammonia Amylase Aspartate transaminase (AST) Bilirubin Bicarbonate Bilirubin (unconjugated/conjugated) (BuBc) Carbamazepine Cholesterol Creatine Kinase (CK) CRP / C Reactive Protein Digoxin Gamma -glutamyltransferase (GGT) Glucose Carbamazepine Cholesterol</p>	<p>Ortho Vitros XT 7600 Microslide using documented procedure CSOP A058</p> <p>Dry slide technology</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Routine Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturers instructions for
Serum / plasma	Creatine Kinase (CK) CRP / C Reactive Protein Digoxin Gamma GT Glucose HDL / HDL Cholesterol Iron Lactate dehydrogenase (LDH) Lipase Phosphate	Ortho Vitros XT 7600 Microslide using documented procedure CSOP A058 Dry slide technology
Serum / plasma	Phenytoin Phenobarbitone Total Iron Binding Capacity (TIBC) Total protein Triglyceride	Ortho Vitros XT 7600 Microslide using documented procedure CSOP A058 Dry slide technology
Serum/Plasma/CSF/Fluid	Glucose Lactate Protein	Ortho Vitros XT 7600 Microslide using documented procedure CSOP A058 Dry slide technology
Serum / plasma	Alpha -fetoprotein (AFP) Total human chorionic gonadotrophin (hCG) Troponin 1 Vitamin D Thyroid stimulating hormone (TSH) Free T4 Free T3 Insulin C-peptide Ferritin Luteinising hormone (LH) Follicle stimulating hormone (FSH) Folate Vitamin B12 Cortisol Prolactin Oestradiol Testosterone NT-proBNP Folate	Immunoassay using Ortho Vitros XT 7600 microwell following documented procedure CSOP A058
Whole Blood		



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HUMAN BODY FLUIDS (cont'd)	<u>Routine Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturers instructions for
Serum / Plasma	Parathyroid hormone (PTH) Androstenedione DHEAS Growth hormone Adrenocorticotrophic hormone (ACTH)	Immunoassay using Diasorin Liaison following documented procedure CSOP A073
Serum / Plasma	Insulin-like growth hormone 1 (IGF1) IGF- binding protein (IGF-BP3)	Immunoassay using IDS iSYS following documented procedure CSOP N064
Serum / plasma	Tacrolimus Ciclosporin Sirolimus	AB Sciex 3200 LC-MS using documented procedure CSOP N056
Serum / plasma	Immunoglobulins (IgA,IgG, IgM) Complement C3 Complement C4 Alpha-1 antitrypsin (A1AT) Caeruloplasmin	Protein nephelometry using Siemens BNII analyser using documented procedure CSOP N009
Urine	Albumin Retinol binding protein (RBP)	Protein nephelometry using Siemens BNII analyser using documented procedure CSOP N009



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HUMAN BODY FLUIDS (cont'd)	<u>Routine Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturers instructions for
Serum / plasma	Non-esterified fatty acids (NEFA) B-hydroxybutyrate (BOHB) Angiotensin converting enzyme (ACE) Protein (BCP)	IL650 photometry. End point assay/ kinetic assays using documented procedures CSOP N057
Urine	N-acetyl-B-glucosaminidase (NAG)	IL650 photometry. End point assay/ kinetic assays using documented procedures CSOP N057
Serum / plasma	Inhibin B Anti-mullerian hormone (AMH)	ELISA using documented procedures CSOP N047, CSOP N048, CSOP N034, CSOP N035
Serum / plasma	Glomerular filtration rate GFR estimation (using Iohexol)	ThermoFischer HPLC following documented procedures CSOP N051
Whole Blood	Blood Gas Analysis (pH & ionised calcium) iCa pH	Rapid 348 Blood gas analyser - using using documented procedure CSOP N027
Serum/Plasma/Urine	Osmolality	Advanced Instruments OSMO PRO (freezing point depression) using using documented procedure CSOP A038
Blood / CSF	Lactate Pyruvate	Cobas Bio fluorometry using documented procedure CSOP N012, CSOP N030
Blood	Acetoacetate	Cobas Bio fluorometry using documented procedure CSOP N012, CSOP N030



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HUMAN BODY FLUIDS (cont'd)	<u>Routine Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturers instructions for
Urine	hCG (pregnancy test)	Using manufacturers kit and documented procedure CSOP N036
Sweat	Chloride conductivity	Wescor conductivity meter using coulometry and documented procedures CSOP N055, CSOP N054
Blood	Manganese	Thermo-Fisher ICP-MS Mass spectrometry following documented procedure CSOP N069
Plasma / serum	Copper Selenium Zinc	Thermo-Fisher ICP-MS Mass spectrometry following documented procedure CSOP N069
Plasma / serum	Biotinidase	LC-tandem Mass Spectrometry (AP4000 Sciex) following documented procedure CSOP N052
Feaces	Facial haemoglobin	Qualitative faecal immunochemical testing following documented procedure CSOP N033
Urine	<u>Metabolic Biochemistry examination activities for the purposes of clinical diagnosis:</u> Organic Acids, VMA/HVA	Documented in house methods and manufacturers instructions for Gas Chromatography - Mass Spectrometry Agilent 7890A, GC-MS CSOP M007, CSOP M006, CSOP M030, CSOP M009, CSOP M010
Plasma / serum	Very Long Chain Fatty Acids C26, C24, C22, Phytanate, Pristanate, C26/C22, C24/C22 Busulphan	Gas Chromatography - Mass Spectrometry Agilent 7890A, GC-MS CSOP M007, CSOP M006, CSOP M030, CSOP M009, CSOP M010
Urine	Sialic acid (free and total)	LC – mass spectrometry using Waters Xevo TQ-S following documented procedure ESOP O042
Plasma / serum	17-hydroxy-progesterone	ABSciex API3200 tandem mass spectroscopy using CSOP N072



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HUMAN BODY FLUIDS (cont'd)	<u>Metabolic Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturers instructions for
Dried Blood spot	Branched Chain Amino Acids <ul style="list-style-type: none"> • Leucine • Isoleucine • Valine • All-isoleucine 	Ultra High Performance Liquid Chromatography. Agilent 1290 Infinity, UHPLC CSOP M027
Plasma / serum / CSF / Urine	Amino acid profile Glycine, Serine, Threonine, Proline, Leucine, Isoleucine, Valine, Allo-isoleucine, Alanine, Glutamine, Arginine, Ornithine, Citrulline, Lysine, Methionine, Taurine, Phenylalanine, Tyrosine, Tryptophan, Histidine, Glutamic acid, Argininosuccinic acid, Total Homocysteine. Cystine (urine) Phosphoethanolamine (urine)	Biochrom 30/30+, Ion Exchange Chromatography. CSOP M020, CSOP M024, CSOP M025
Urine	Sulphocysteine	Biochrom 30/30+, Ion Exchange Chromatography. CSOP M020, CSOP M024, CSOP M025
Plasma / serum / CSF	Amino acid profile: Glycine, Serine, Threonine, Proline, Leucine, Isoleucine, Valine, Allo-isoleucine, Alanine, Glutamine, Arginine, Ornithine, Lysine, Methionine, Taurine, Phenylalanine, Tyrosine, Tryptophan, Histidine, Asparagine, Aspartate, Glutamic acid	High Performance Liquid Chromatography using Waters 2487 HPLC CSOP M002, CSOP M017, CSOP M004, CSOP M031
Urine / Faeces	Sugars: Galactose, Fructose, Sucrose, Glucose, Lactose, Arabinose, Maltose, Sucrose, Xylose, Lactulose, Raffinose, Fucose, Ribose, Isomaltose	High Performance Liquid Chromatography using Waters 2487 HPLC CSOP M002, CSOP M017, CSOP M004, CSOP



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HUMAN BODY FLUIDS (cont'd)	<u>Metabolic Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturers instructions for
Urine	Glucose Tetrasaccharide	M031 High Performance Liquid Chromatography using Thermo (Dionex) ICS 5000 +, CSOP M031
Dried blood spot / urine	Acylcarnitines	Tandem Mass Spectrometry, API4000 CSOP M028, CSOP M034, CSOP S013
Urine and plasma	Guanidinoacetate Creatine Creatinine	Tandem Mass Spectrometry, API4000 CSOP M028, CSOP M034, CSOP S013
Faeces / urine	Reducing substances	Benedicts Test - Manual colour change using CSOP M026
	PKU Clinic Patient monitoring	
Blood spot	Phenylalanine Tyrosine	AB Sciex API3200 Mass Spectrometer CSOP S001 Newborn Screening and Clinic Patient Monitoring by Tandem Mass Spectrometry Perkin Elmer Panthera puncher 9 CSOP S028



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<p>HUMAN BODY FLUIDS (cont'd)</p> <p>Blood spot</p> <p>Blood spot</p> <p>Blood spot</p> <p>Blood spot</p>	<p><u>New Born Screening Biochemistry examination activities for the purposes of clinical diagnosis:</u></p> <p>Newborn screening for Haemoglobinopathies</p> <p>Haemoglobin F* Haemoglobin A* Haemoglobin E* Haemoglobin C* Haemoglobin D* Haemoglobin S*</p> <p>Newborn Screening for Cystic Fibrosis Immunoreactive trypsin (IRT)*</p> <p>Newborn Screening for congenital hypothyroidism (CHT)</p> <p>Thyroid stimulating hormone (TSH)*</p> <p>Newborn Screening for Severe Combined Immunodeficiency (SCID)</p>	<p>Documented in-house methods* to meet the requirements of the Newborn Blood spot Screening Programme(s) as defined in the laboratory QA evidence requirements</p> <p>AB Sciex API4500 Mass Spectrometer Haemoglobinopathy screening by TMS CSOP S041 Perkin Elmer Panthera puncher 9 CSOP S028</p> <p>GSP Neonatal IRT assay Fluorescence DELFIA CSOP S019 Newborn screening for cystic fibrosis Perkin Elmer Panthera puncher 9 CSOP S028</p> <p>GSP Neonatal hTSH Fluoroimmuno-metric assay CSOP S007 Newborn Screening for congenital hypothyroidism Perkin Elmer Panthera puncher 9 CSOP S028</p> <p>ImmunoIVD SpotIT method polymerase chain reaction (PCR). Bloodspot punching using DBS single puncher Sample preparation and analysis carried out using Proflex and QuantStudio 5DX CSOP S045 - Newborn screening for SCID SOP CSOP RP12 Referral of Severe Combined Immune Deficiency (SCID) Suspected SOP</p>



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HUMAN BODY FLUIDS (cont'd)	<u>Enzyme Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturers instructions for
Plasma, leucocyte, cultured fibroblasts (CSK), cultured chorionic villi (CCV), cultured amniotic cells (CAC), chorionic villi (CV)	<u>4 methylumbelliferone assays</u> a-mannosidase b-mannosidase a-fucosidase a-N-acetylgalactosaminidase Hexosaminidase A Total b-hexosaminidase a-galactosidase Iduronate-2-sulphatase b-glucuronidase	Fluorescence - Perkin Elmer LS55 - Tecan Infinite M200 - Tecan freedom Evo SOPs ESOP B005, B022, B023, B024, B025, B026, B027, B032, B033, B034, B035, B038, B039, B040, B041, B042, B048, B049, B064, B066, B068, B069, C008, C009, C010, C014, C015, C017, C018, C019, C024, O006, O007, O009, O010, O011, O045, P007, P008, P009, P011, P014, EEQ002, EEQ006, EEQ008
Serum	Asparaginase	Tecan Infinite M200 spectrophotometry using ESOP B077
Plasma, leucocyte, cultured fibroblasts (CSK), cultured chorionic villi (CCV), cultured amniotic cells (CAC), chorionic villi (CV)	B-galactosidase Palmitoyl protein thioesterase I Tripeptidyl peptidase I b-glucosidas a-neurminidase a-iduronidase Heparin sulphamidase Acetyl-CoA:D glucosamine N-acetyltransferase N-acetylglucosamine-6-sulphatase N-acetylgalactosamine -6-sulphatase a-N-Glucosaminidase	SOPs ESOP B028, B036, B045, B050, B054, B055, B056, B057, B058, B060, B061, B065, C011, C016, C021, C025, C028, C029, C030, C032, C033, C036, C037, P010, P016, P020, P025, P029, P030, P031, P034, P035
Blood spot, leucocyte, cultured fibroblasts (CSK), cultured chorionic villi (CCV), cultured amniotic cells (CAC), chorionic villi (CV)	Acid a-1,4-glucosidase	ESOP B036, B072, C001, C002, P003
Plasma	Chitotriosidase	ESOP B043, B067



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HUMAN BODY FLUIDS (cont'd)	<u>Enzyme Biochemistry examination activities for the purposes of clinical diagnosis:</u>	Documented in house methods and manufacturers instructions for
Plasma, leucocyte, cultured fibroblasts (CSK), cultured chorionic villi (CCV), cultured amniotic cells (CAC)	Aspartylglucosaminidase	ESOP B043, B067
Leucocyte, cultured fibroblasts (CSK)	Galactocerebrosidase	Fluorescence technique using Tecan Infinite M200 ESOP B029
Leucocyte, cultured fibroblasts (CSK), cultured chorionic villi (CCV), cultured amniotic cells (CAC)	Arylsulphatase A	Spectrophotometry Cecil CE2041 ESOP B030, B031, B047, B059, C013, C023, C031, C035, O039, O042, P012, P013, P021, P031, P037
Leucocyte, cultured fibroblasts (CSK)	Arylsulphatase B, acid esterase	Spectrophotometry Cecil CE2041
Plasma, Amniotic Fluid	I cell screen	Spectrophotometry Cecil CE2041
Urine	Total Glycosaminoglycans	Spectrophotometry Cobas Bio
Leucocyte, cultured fibroblasts (CSK), cultured chorionic villi (CCV), cultured amniotic cells (CAC)	Sphingomyelinase	Radioactive assays using Perkin-Elmer Tri-Carb 2910TR ESOP B014C022, C038, P022, EEQ007
Leucocyte, Chorionic Villi	Cystine	Mass Spectrometry using API 4000 ESOP B062, P036
Urine	Glycosaminoglycans	Electrophoresis ESOP O041, P033
Leucocyte, cultured fibroblasts (CSK)	Cross reactive immunogenic material (CRIM)	Western Blot Invitrogen i-blot Invitrogen X-cell Surelock ESOP P038



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	<u>Carbohydrate metabolism</u>	NADH/NADP based
Erythrocyte	Galactose-1-phosphate, galactose-1-phosphate uridyl transferase	ESOP B013, B016
Liver biopsy, muscle biopsy	Phosphofrutokinase	ESOP O024
Leucocyte, liver biopsy	Fructose-1,6 bisphosphatase	ESOP B011, O023
Leucocyte, muscle / liver biopsy	Phosphoglucomutase	ESOP, B019, O025,
		Glucose based ESOP O027,
Erythrocyte, muscle / liver biopsy	Glycogen	ESOP B012, O049
Leucocyte, muscle / liver biopsy	Debrancher	ESOP B006, O014, O015
Liver Biopsy, muscle biopsy	Acid maltase	ESOP O031
		Phosphate based Phosphate (1) ESOP O029,
Leucocyte, muscle / liver biopsy	Phosphorylase	ESOP, B009, O019, O020
Erythrocyte, muscle / liver biopsy	Phosphorylase b kinase	ESOP B010, O021, O022,
Leucocyte, muscle biopsy, liver biopsy, CSK, CCV, CAC	Glycogen branching enzyme	ESOP B008, O016, O017, O018
Liver biopsy	Glucose-6-phosphatase	ESOP O013
END		