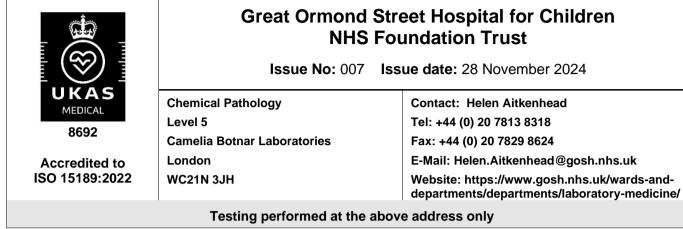
Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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



DETAIL OF ACCREDITATION		
Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS	Routine Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers instructions for
	Quantitative determination of:	
Serum / plasma / urine	Sodium Potassium Chloride	Ortho Vitros XT 7600 Microslide using documented procedure CSOP A058
	Urea Creatinine Urate Calcium Phosphate TotalProtein Magnesium	Dry slide technology
Serum / plasma	Albumin Alanine transaminase (ALT) Alkaline Phosphatase (ALP) Ammonia Amylase Aspartate transaminase (AST) Bilirubin Bicarb BuBc Carbamazepine Cholesterol Creatine Kinase (CK) CKMB CRP / C Reactive Protein Digoxin Gamma GT Glucose Carbamazepine Cholesterol	Ortho Vitros XT 7600 Microslide using documented procedure CSOP A058 Dry slide technology

DETAIL OF ACCREDITATION



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HUMAN BODY FLUIDS (cont'd)	Routine Biochemistry examination activities for the purposes of clinical diagnosis:	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 LDH Lipase Phosphate	Ortho Vitros XT 7600 Microslide using documented procedure CSOP A058 Dry slide technology
Serum / plasma	Phenytoin Phenobarbitone 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 Whole Blood	aFP hCG Troponin 1 Vitamin D Thyroid stimulating hormone (TSH), free T4, free T3, Insulin c-peptide ferritin LH FSH Folate vitamin B12 cortisol, prolactin, oestradiol, testosterone NT-proBNP Folate	Immunoassay using Ortho Vitros XT 7600 microwell following documented procedure CSOP A058
Serum / Plasma	PTH, androstenedione, DHEAS, Growth hormone, ACTH	Immunoassay using Diasorin Liaison following documented procedure CSOP A073
Serum / Plasma	IGF1, IGF-BP3	Immunoassay using IDS iSYS following documented procedure CSOP N064



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HUMAN BODY FLUIDS (cont'd)	Routine Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers instructions for
Serum / plasma	androstenedione t DHEA	Immunoassay using Siemens Immulite 2000 XP following documented procedure CSOP A059
	GH IGF BP3 PTH	
	ACTH	
Serum / plasma	Tacrolimus Ciclosporin Sirolimus	AB Sciex 3200 LC-MS using documented procedure CSOP N056
Serum / plasma	IgA IgG IgM C3 C4 A1AT Caeruloplasmin	Protein nephelometry using Siemens BNII analyser using documented procedure CSOP N009
Urine	Albumin RBP	Protein nephelometry using Siemens BNII analyser using documented procedure CSOP N009



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HUMAN BODY FLUIDS (cont'd)	Routine Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers instructions for
Serum / plasma	NEFA BOHB ACE Protein (BCP)	IL650 photometry. End point assay/ kinetic assays using documented procedures CSOP N057
Urine	NAG	IL650 photometry. End point assay/ kinetic assays using documented procedures CSOP N057
Serum / plasma	Inhibin B AMH	ELISA using documented procedures CSOP N047, CSOP N048, CSOP N034, CSOP N035
Serum / plasma	GFR estimation (using lohexol)	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
Faeces	Occult blood	Guaiac dye kit method using manufacturers kit and documented procedure CSOP N033



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HUMAN BODY FLUIDS (cont'd)	Routine Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers instructions for
Urine	hCG (pregnancy test)	Using manufacturers kit and documented procedure CSOP N036
Sweat	Sweat Test - 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	Faceal haemoglobin	Qualitative faecal immunochemical tesing following documented procedure CSOP N033
	Metabolic Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers instructions for
Urine	Organic Acids, VMA/HVA	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 0042
Plasma / serum	17-hydroxy-progesterone	ABSciex API3200 tandem mass spectroscopy using CSOP N072



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HUMAN BODY FLUIDS (cont'd)	Metabolic Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers instructions for
Dried Blood spot	 Branched Chain Amino Acids 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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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Metabolic Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers instructions for
Urine	Glucose Tetrasaccharide	M031High 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
HUMAN BODY FLUIDS (cont'd)	New Born Screening Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods to meet the requirements of the NBS screening programme as defined in the current version of 'Newborn Screening laboratory QA evidence requirements'
	Newborn Screening for Metabolic disorders and PKU Clinic Patient monitoring	Documented in house methods to meet the requirements of the NHS Newborn Blood Spot Screening Programme laboratory quality assurance evidence requirements
Blood spot	Phenylalanine Tyrosine Octanoyl Carnitine Decanoyl Carnitine LEUCINE C5 C5 DC Methionine	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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HUMAN BODY FLUIDS (cont'd)	New Born Screening Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods to meet the requirements of the 9 screening programme as defined in the current version of 'Newborn Screening laboratory QA evidence requirements'
	Newborn screening for Haemaglobinopathies	
Blood spot	Haemoglobin F Haemoglobin A Haemoglobin E Haemoglobin C Haemoglobin D Haemoglobin S	AB Sciex API4500 Mass Spectrometer Haemoglobinopathy screening by TMS CSOP S041 Perkin Elmer Panthera puncher 9 CSOP S028
Blood spot	Cystic Fibrosis Transmembrane Conductance Regulator (CFTR)	GSP Neonatal IRT assay Fluorescence DELFIA CSOP S019 Newborn screening for cystic fibrosis Perkin Elmer Panthera puncher 9 CSOP S028
Blood spot	hTSH	GSP Neonatal hTSH Fluoroimmunometric assay CSOP S007 Newborn Screening for congenital hypothyroidism Perkin Elmer Panthera puncher 9 CSOP S028
Blood spot	clinical diagnosis of Severe Combined Immunodeficiency (SCID)	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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Enzyme Biochemistry examination activities for the purposes of clinical diagnosis:	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 spectrophometry 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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Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	
Enzyme Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers instructions for	
Aspartylglucosaminidase	ESOP B043, B067	
6-hexadecanoylamino-4- methylumbelliferyl assay Galactocerebrosidase	Fluorescence technique using Tecan Infinite M200 ESOP B029	
Arylsulphatase A	Spectrophotometry Cecil CE2041 ESOP B030, B031, B047, B059, C013, C023, C031, C035, O039, O042, P012, P013, P021, P031, P037	
Arylsulphatase B, acid esterase	Spectrophotometry Cecil CE2041	
I cell screen	Spectrophotometry Cecil CE2041	
Glycosaminoglycans	Spectrophotometry Cobas Bio	
Sphingomyelinase	Radioactive assays using Perkin-Elmer Tri-Carb 2910TR ESOP B014C022, C038, P022, EEQ007	
Cystine	Mass Spectrometry using API 4000 ESOP B062, P036	
Glycosaminoglycans	Electrophoresis ESOP 0041, P033	
Cross reactive immunogenic material	Western Blot Invitrogen i-blot Invitrogen X-cell Surelock ESOP P038	
	Type of test/Properties measured/Range of measurement Enzyme Biochemistry examination activities for the purposes of clinical diagnosis: Aspartylglucosaminidase 6-hexadecanoylamino-4- methylumbelliferyl assay Galactocerebrosidase Arylsulphatase A I cell screen Glycosaminoglycans Sphingomyelinase Cystine Glycosaminoglycans Cross reactive immunogenic	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
HUMAN BODY FLUIDS (cont'd)	Enzyme Biochemistry examination activities for the purposes of clinical diagnosis:	Documented in house methods and manufacturers instructions for
	Carbohydrate metabolism	NADH/NADP based
Erythrocyte	Galactose-1-phosphate, galactose- 1-phosphate uridyl transferase	ESOP B013, B016
Liver blopsy	Aldolase	ESOP 0024
Liver biopsy, muscle biopsy	Phosphofrutokinase	ESOP 0024
Leucocyte, liver biopsy	Fructose-1,6 bisphosphatase	ESOP B011, 0023
Leucocyte, muscle / liver biopsy	Phosphoglucomutase	ESOP, B019, O025,
		Glucose based ESOP 0027,
Erythrocyte, muscle / liver biopsy	Glycogen	ESOP B012, O049
Leucocyte, muscle / liver	Debrancher	ESOP B006, O014, O015
biopsy Liver Biopsy, muscle biopsy	Acid maltase	ESOP O031
		Phosphate based Phosphate (1) ESOP O029,
Leucocyte, muscle / liver biopsy	Phosphorylase	ESOP, B009, O019, O020

ESOP B010, 0021, 0022,

ESOP B008, O016, O017, O018

Phosphate (2) ESOP O028

ESOP 0013

END

Phosphorylase b kinase

Glucose-6-phophatase

Brancher

Phosphate (2)

Liver biopsy

Erythrocyte, muscle / liver

Leucocyte, muscle biopsy,

liver biopsy, CSK, CCV, CAC

biopsy