Schedule of Accreditation

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DETAIL OF ACCREDITATION

Materials/Products	Scheme Name/Type of Test/Properties Measured	Scheme Protocols/Procedures/ Techniques Used
	Biochemistry schemes	Protocols available at: www.birminghamquality.org.uk
Liquid human serum	**UK NEQAS for Steroid Hormones** Cortisol Urinary cortisol 17-hydroxyprogesterone Progesterone Oestradiol Oestradiol (high level) Testosterone (female matrix) Testosterone (male matrix) SHBG (female matrix) SHBG (male matrix) Free testosterone Androstenedione DHA sulphate Aldosterone Free Androgen Index Prednisolone Dexamethasone	
Lyophilised K-EDTA Plasma	Renin Renin-Aldosterone ratio (derived analyte)	

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Liquid human serum	**UK NEQAS for Specific Proteins** IgG IgA IgM Complement component C3 Complement component C4 Alpha1-antitrypsin Alpha1-acid glycoprotein Haptoglobin Transferrin Alpha2-macroglobulin Caeruloplasmin Transthyretin Albumin (immunochemical)	
Serum	**UK NEQAS for Vitamin K** Phylloquinone (Vitamin K1)	
Liquid human serum	**UK NEQAS for Toxicology and Therapeutic Drug Monitoring** Salicylate Paracetamol Ethanol Carbamazepine Digoxin Lithium Phenobarbital Phenytoin Theophylline Valproate Primidone Ethosuximide Lamotrigine Caffeine Methotrexate Ethylene Glycol	
Liquid human whole blood and plasma	**UK NEQAS for Glycated Haemoglobins** HbA1c [IFCC and DCCT] Fructosamine	

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Liquid human urine	**UK NEQAS for Urinary Catecholamines & Metabolites** Total Metadrenaline Free Metadrenaline Total Normetadrenaline Free Normetadreanline Total 3-Methoxytyramine Free 3-Methoxytyramine VMA HVA Total Noradrenaline Free Noradrenaline Total Adrenaline Free Adrenaline Total Dopamine Free Dopamine 5HIAA	
Dried blood spots	**UK NEQAS for Newborn Screening** (incorporating Birmingham Quality ~ Newborn Screening) Disease states: Congenital hypothyroidism, Phenylketonuria (PKU), Medium-chain acyl-CoA dehydrogenase deficiency (MCADD), Maple syrup urine disease (MSUD) Isovaleric acidaemia (IVA), Glutaric aciduria type 1 (GA1), Homocystinuria [pyridoxine unresponsive] (HCU) Screening analytes and their interpretation for: TSH, IRT, phenylalanine, tyrosine, C8, C10, C8/C10 ratio, C5, C5DC, Leucine and Methionine	For UK Newborn Screening Laboratory Network laboratories only
Liquid human serum	**UK NEQAS for Paediatric Bilirubin** Total bilirubin Conjugated bilirubin Total bilirubin (ward-based)	

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Liquid human serum	**UK NEQAS for Quantitative Amino Acids** Phenylalanine Tyrosine Leucine Isoleucine Valine	
Liquid human serum	**UK NEQAS for Lipid Investigations** Total cholesterol HDL cholesterol Triglyceride LDL cholesterol Non-HDL cholesterol VLDL cholesterol Apolipoprotein A1 Apoliprotein B Lp(a) Homocysteine	
Liquid aqueous specimens	**UK NEQAS for Sweat Testing** Chloride (and its interpretation) Sodium Conductivity (and its interpretation) Specimen assessment (as Negative, Equivocal or Positive)	
Liquid human serum	**UK NEQAS for Acute and Chronic Kidney Disease** Creatinine Estimated glomerular filtration rates (eGFRs) Cystatin C Acute Kidney Injury (AKI)	

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Liquid human urine	**UK NEQAS for Urine Chemistries** Albumin Amylase Calcium Chloride Creatinine Glucose Magnesium Phosphate Potassium Total protein Sodium Urate Urea Osmolality Albumin:creatinine ratio Protein:creatinine ratio	
Aqueous Buffers	pH (non-dipstick)	
Liquid human serum	**UK NEQAS for Thyroid Hormones** Thyroid stimulating hormone (TSH) Free thyroxine Free tri-iodothyronine Total thyroxine Total tri-iodothyronine	
Brief case history and/or laboratory results (real or, occasionally, hypothetical)	**UK NEQAS for Interpretative Comments in Clinical Chemistry** Interpretative comments to laboratory reports in clinical chemistry	
Liquid human serum	**UK NEQAS for Thyroglobulin** Thyroglobulin Thyroglobulin antibody (numeric and interpretation)	

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Liquid human serum	**UK NEQAS for Vitamin Assays** Vitamin A (retinol) Vitamin E (alpha tocopherol) Beta carotene Total carotenoids Alpha carotene Beta cryptoxanthin Lutein + zeaxanthin Lycopene Zeaxanthin	
Human faeces	**UK NEQAS for Faecal Markers** Calprotectin (quantitative, POCT and interpretation) Lactoferrin (quantitative, POCT and interpretation) S100-A12	
Synthetic faeces	**UK NEQAS for Faecal Haemoglobin** Faecal haemoglobin (quantitative and interpretation)	
Synthetic faeces preloaded into manufacturers cartridge: HM-JACKarc, OC Sensor, and Sentinel	Faecal haemoglobin (quantitative and interpretation)	
Saliva	**UK NEQAS For Salivary Steroids** Cortisone Cortisol	
Liquid human serum	**UK NEQAS for ACE** ACE (Angiotensin Converting Enzyme)	
Liquid human serum	**UK NEQAS for Ammonia** Ammonia	
Liquid human serum	**UK NEQAS for Total Bile Acids** Total Bile Acids	

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Whole Blood	**Birmingham Quality POCT suite** Cholesterol HDL Cholesterol Triglycerides HDL Cholesterol:Cholesterol ratio Glucose D-3-hydroxybutyrate Creatinine HbA1c Bilirubin LDL Cholesterol Non-HDL Cholesterol	
Serum	HDL Cholesterol LDL Cholesterol Non-HDL Cholesterol TC/HDL Ratio Total Cholesterol Triglyceride Glucose Bilirubin Creatinine D-3-hydroxybutyrate Lactate	
Urine	Creatinine Albumin Total Protein Total Protein:Creatinine Ratio Albumin:Creatinine Ratio	
Lyophilised K-EDTA Plasma	**UK NEQAS for Plasma Metanephrines** Free Metanephrine Free Normetanephrine 3-Methoxytyramine	

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Liquid human serum	**Birmingham Quality Chemistry POCT EQAS** ALT Albumin ALP Amylase AST Calcium Creatinine GGT Glucose Bilirubin Total protein Urea Urate Total cholesterol HDL cholesterol Triglyceride Lactate Magnesium Phosphate Creatine Kinase	
Liquid human urine	**UK NEQAS for Urine Dipsticks** Analytes included in commercial urine dipstick repertoire: Bilirubin Haem blood Ketones Nitrite Protein Urobilinogen Non-haem blood Glucose Leucocytes pH Specific gravity	
Human faeces	**UK NEQAS for Faecal Pancreatic Elastase** Faecal Pancreatic Elastase	

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Liquid human serum	**UK NEQAS Monthly Clinical Chemistry** Sodium Potassium Chloride Urea Glucose Calcium Phosphate Iron Urate Creatinine Bilirubin Total protein Albumin Magnesium Lithium Osmolality Aspartate transaminase (AST) Alanine transaminase (ALT) Lactate dehydrogenase (LD) Creatine kinase (CK) Alkaline phosphatase (ALP) Amylase Gamma-glutamyl transferase (GGT) Adjusted calcium Bicarbonate Copper D-3-hydroxybutyrate Unsaturated Iron Binding Capacity (UIBC) Total Iron Binding Capacity (TIBC) Lipase Zinc Lactate Anion Gap Osmolal Gap Globulin Transferrin Transferrin Saturation Fibrosis-4 Index for liver fibrosis (FIB-4)	

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Liquid human whole blood and Liquid human serum (Mycophenolate only)	**UK NEQAS for Immunosuppressants** Ciclosporin Tacrolimus Sirolimus Everolimus Mycophenolate	
Liquid human serum	**UK NEQAS for Serum Indices** Haemolysis Icterus Lipaemia Analyte X	
Liquid human serum	**UK NEQAS for Vitamin D** Total 25 Hydroxyvitamin D 25 Hydroxyvitamin D2 25 Hydroxyvitamin D3 Vitamin D interpretation	
Pleural Fluid Ascitic Fluid	**UK NEQAS for Fluids** Albumin Amylase Creatinine Glucose LDH Total Cholesterol Total Protein Triglycerides Urea Lipase Lactate Bilirubin Haemolysis index Icterus index Lipaemia index	
Aqueous Buffers	pH	

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	Haematinics schemes	Protocols available at: www.birminghamquality.org.uk
	UK NEQAS for Haematinic Assays	
Liquid human serum	Vitamin B12 Folate Ferritin	
Whole blood	Red cell folate	
	Interpretation of each analyte	
Liquid human serum	**UK NEQAS for Intrinsic Factor Antibodies** Intrinsic factor antibodies Interpretation	
Liquid human serum	**UK NEQAS for Erythropoietin** Erythropoietin	
Liquid human serum	**UK NEQAS for Holotranscobalamin** Holotranscobalamin Interpretation Methylmalonic Acid	
	Antimicrobial schemes	Protocols available at: www.birminghamquality.org.uk
Liquid human serum	**UK NEQAS for Antibiotic Assays** Amikacin Gentamicin Teicoplanin Tobramycin Vancomycin	
Liquid human serum	**UK NEQAS Antifungal Assays** Itraconazole Hydroxyitraconazole Posaconazole Voriconazole Flucytosine Isavuconazole	
END		