

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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



7860

Accredited to  
ISO/IEC 17043:2010

### University Hospitals Birmingham NHS Foundation Trust, operating Birmingham Quality

Issue No: 005 Issue date: 06 November 2017

Birmingham Quality (UK NEQAS)

P O Box 3909

Birmingham

B15 2UE

United Kingdom

Contact: Finlay MacKenzie

Tel: +44 (0) 121 414 7300

Fax: +44 (0) 121 414 1179

E-Mail: [birminghamquality@uhb.nhs.uk](mailto:birminghamquality@uhb.nhs.uk)

Website: [www.birminghamquality.org.uk](http://www.birminghamquality.org.uk)

Proficiency Tests provided from the above address only

#### DETAIL OF ACCREDITATION

Materials/Products	Scheme Name/Type of Test/Properties Measured	Scheme Protocols/Procedures/ Techniques Used
Liquid human serum	<p><b>Biochemistry schemes</b></p> <p><b>UK NEQAS for Clinical Chemistry</b></p> <p>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</p>	<p><b>Protocols available at:</b> <a href="http://www.birminghamquality.org.uk">www.birminghamquality.org.uk</a></p>



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Materials/Products	Scheme Name/Type of Test/Properties Measured	Scheme Protocols/Procedures/ Techniques Used
Liquid human serum	<b>UK NEQAS for Thyroid Hormones</b> Thyroid stimulating hormone (TSH) Free thyroxine Free tri-iodothyronine Total thyroxine Total tri-iodothyronine	
Liquid human serum	<b>UK NEQAS for Steroid Hormones</b> Cortisol Urinary cortisol 17-hydroxyprogesterone Progesterone Oestradiol Oestradiol (high level) Testosterone (female matrix) Testosterone (male matrix) SHBG Free testosterone Androstenedione DHA sulphate Aldosterone	
Liquid human serum	<b>UK NEQAS for Specific Proteins</b> IgG IgA IgM Complement component C3 Complement component C4 Alpha1-antitrypsin Alpha1-acid glycoprotein Haptoglobin Transferrin Alpha2-macroglobulin Caeruloplasmin Transthyretin Albumin (immunochemical)	



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Materials/Products	Scheme Name/Type of Test/Properties Measured	Scheme Protocols/Procedures/ Techniques Used
Liquid human serum	<b>UK NEQAS for Toxicology and Therapeutic Drug Monitoring</b>  Salicylate Paracetamol Ethanol Carbamazepine Digoxin Lithium Phenobarbital Phenytoin Theophylline Valproate Primidone Ethosuximide Lamotrigine Caffeine Methotrexate	
Liquid human whole blood and plasma	<b>UK NEQAS for Glycated Haemoglobins</b> HbA1c [IFCC and DCCT] Fructosamine	
Liquid equine blood	<b>UK NEQAS for Lead &amp; Cadmium in Blood</b> Lead Cadmium	
Liquid human urine	<b>UK NEQAS for Urinary Catecholamines &amp; Metabolites</b> Metadrenaline Normetadrenaline 3-methoxytyramine VMA HVA Noradrenaline Adrenaline Dopamine 5HIAA	



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Materials/Products	Scheme Name/Type of Test/Properties Measured	Scheme Protocols/Procedures/ Techniques Used
Dried blood spots	<p><b>UK NEQAS for Newborn Screening</b></p> <p>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)</p> <p>Screening analytes and their interpretation for: TSH, IRT, phenylalanine, tyrosine, C8, C10, C8/C10 ratio, C5, C5DC, Leucine and Methionine</p>	
Liquid human serum	<p><b>UK NEQAS for Paediatric Bilirubin</b></p> <p>Total bilirubin Conjugated bilirubin Total bilirubin (ward-based)</p>	
Liquid human serum	<p><b>UK NEQAS for Quantitative Amino Acids</b></p> <p>Phenylalanine Tyrosine Leucine Isoleucine Valine</p>	
Liquid human serum	<p><b>UK NEQAS for Cholinesterase Investigations</b></p> <p>(butyryl)cholinesterase activity estimation cholinesterase inhibitor studies: dibucaine number fluoride number RO2- 863 number scoline number chloride number phenotype assessment comments on specimen (e.g. need for family studies, contact card)</p>	



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Liquid human serum	<b>UK NEQAS for Lipid Investigations</b> Total cholesterol HDL cholesterol Triglyceride LDL cholesterol Non-HDL cholesterol VLDL cholesterol Apolipoprotein A1 Apolipoprotein B Lp(a) Homocysteine	
Liquid aqueous specimens	<b>UK NEQAS for Sweat Testing</b> Chloride (and its interpretation) Sodium Conductivity (and its interpretation) Specimen assessment (as Negative, Equivocal or Positive)	
Liquid human serum	<b>UK NEQAS for GFR Estimations</b> Creatinine Estimated glomerular filtration rates (eGFRs) Cystatin C	
Liquid human urine	<b>UK NEQAS for Urine Chemistries</b> Albumin Amylase Calcium Chloride Creatinine Glucose Magnesium Phosphate Potassium Total protein Sodium Urate Urea Osmolality Albumin:creatinine ratio Protein:creatinine ratio pH (non-dipstick)	



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Liquid human urine	<b>UK NEQAS for Urine Dipsticks</b> Analytes included in commercial urine dipstick repertoire: Bilirubin Haem blood Ketones Nitrite Protein Urobilinogen Non-haem blood Glucose Leucocytes pH Specific gravity	
Brief case history and/or laboratory results (real or, occasionally, hypothetical)	<b>UK NEQAS for Interpretative Comments in Clinical Chemistry</b> Interpretative comments to laboratory reports in clinical chemistry	
Liquid human serum	<b>UK NEQAS for Thyroglobulin</b> Thyroglobulin Thyroglobulin antibody (numeric and interpretation)	
Liquid human serum	<b>UK NEQAS for Vitamin Assays</b> Vitamin A (retinol) Vitamin E (alpha tocopherol) Beta carotene Total carotenoids Alpha carotene Beta cryptoxanthin Lutein + zeaxanthin Lycopene Zeaxanthin	
Liquid human urine	<b>UK NEQAS for Orotic Acid</b> Orotic acid Creatinine Orotic acid : creatinine ratio Interpretation	



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Human faeces	<b>UK NEQAS for Faecal Markers</b> Calprotectin (quantitative, POCT and interpretation) Lactoferrin (quantitative, POCT and interpretation) S100-A12	
Synthetic faeces	<b>UK NEQAS for Faecal Haemoglobin/FOB Test for Colorectal Cancer Screening</b> Faecal haemoglobin/Occult blood (positive/negative)	
Liquid human serum	<b>Birmingham Quality Health Checks EQA Service</b> Total cholesterol HDL cholesterol Triglyceride LDL cholesterol Non-HDL cholesterol Total:HDL cholesterol ratio Glucose	
Liquid human serum	<b>Birmingham Quality Chemistry POCT EQAS</b> ALT Albumin ALP Amylase AST Calcium Creatinine GGT Glucose Bilirubin Total protein Urea Urate Total cholesterol HDL cholesterol Triglyceride	



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Human and Synthetic faeces	<b>UK NEQAS for Faecal Pancreatic Elastase</b> Faecal Pancreatic Elastase	
Liquid human serum	<b>UK NEQAS Monthly Clinical Chemistry</b> Sodium Potassium Chloride Bicarbonate Urea Creatinine Urate Glucose Lactate Calcium Adjusted Calcium Phosphate Bilirubin D-3-hydroxybutyrate Iron UIBC TIBC Total Protein Albumin Lithium Magnesium Copper Zinc Osmolality AST ALT LD CK ALP Amylase GGT Lipase	As above, with the addition of participation being restricted to Israeli laboratories





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Liquid human whole blood and Liquid human serum (Mycophenolate only)	<b>UK NEQAS for Immunosuppressants</b> Ciclosporin Tacrolimus Sirolimus Everolimus Mycophenolate	Protocols available at: <a href="http://www.birminghamquality.org.uk">www.birminghamquality.org.uk</a>
Liquid human serum	<b>UK NEQAS for Serum Indices</b> Haemolysis Icterus Lipaemia Analyte X	
Liquid human serum	<b>UK NEQAS for Vitamin D</b> Total 25 Hydroxyvitamin D 25 Hydroxyvitamin D2 25 Hydroxyvitamin D3	
Liquid human serum and whole blood	<b>Haematinics schemes</b>  <b>UK NEQAS for Haematinic Assays</b> Vitamin B12 Folate Ferritin Red cell folate Interpretations	
Liquid human serum	<b>UK NEQAS for Intrinsic Factor Antibodies</b> Intrinsic factor antibodies Interpretation	
Liquid human serum	<b>UK NEQAS for Erythropoietin</b> Erythropoietin	
Liquid human serum	<b>UK NEQAS for Holotranscobalamin</b> Holotranscobalamin Interpretation Methylmalonic Acid	



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Liquid human serum	<b>Antimicrobial schemes</b>  <b>UK NEQAS for Antibiotic Assays</b> Amikacin Gentamicin Teicoplanin Tobramycin Vancomycin	Protocols available at: <a href="http://www.birminghamquality.org.uk">www.birminghamquality.org.uk</a>
Liquid human serum	<b>UK NEQAS Antifungal Panel</b> Itraconazole Hydroxyitraconazole Posaconazole Voriconazole Flucytosine	
END		