


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>10294</p> <p>Accredited to ISO 15189:2012</p> | <p>Norfolk and Norwich University Hospitals NHS Foundation Trust Trading as Eastern Pathology Alliance</p> <p>Issue No: 006 Issue date: 27 October 2023</p> | |
| | <p>Clinical Biochemistry Blood Sciences Laboratory Norfolk and Norwich University Hospital Colney Lane Norwich NR4 7UY</p> | <p>Contact: Diane Murley Tel: +44 (0)1603 286900 E-Mail: diane.murley@nnuh.nhs.uk</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 | <u>Clinical Chemistry examination activities for the purpose of clinical diagnosis:</u> | In house methods in conjunction with manufacturer's instructions using: |
| Serum/Plasma | Acetaminophen (Paracetamol) | In house methods in conjunction with Abbott Alinity C and I instructions (EPA-BIOP-300) using: Spectrophotometric: Third party SEKURE Acetaminophen L3K assay EPA-BIOP-329 |
| Serum/Plasma | Angiotensin-Converting Enzyme (ACE) | Enzymatic: Third party Buhlmann EPA-BIOP-303 |
| Serum/Plasma | Alanine Aminotransferase/Transaminase | Enzymatic NADH (without P-5'-P) EPA-BIOP-331 |
| Serum/Plasma | Albumin | Colorimetric (Bromocresol Purple) EPA-BIOP-301 |
| Serum/Plasma | Alcohol (Ethanol) | Enzymatic (Alcohol Dehydrogenase) EPA-BIOP-334 |
| Serum/Plasma | Alkaline Phosphatase | Para-nitro phenyl Phosphate EPA-BIOP-330 |
| Plasma | Ammonia | Glutamate dehydrogenase EPA-BIOP-333 |
| Serum/Plasma/Urine | Amylase | Enzymatic (CNP3 Substrate) EPA-BIOP-332 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> (cont'd): | In house methods in conjunction with manufacturer's instructions using: In house methods in conjunction with Abbott Alinity C and I instructions (EPA-BIOP-300) using: |
| Serum/Plasma | AST | Enzymatic NADH (without P-5'-P) EPA-BIOP-305 |
| Serum/Plasma | Bicarbonate/Carbon Dioxide | PEP carboxylase EPA-BIOP-336 |
| Serum/Plasma | Bile acids | Enzymatic Cycling Colorimetric EPA-BIOP-360 |
| Serum/Plasma | Bilirubin (direct) | Diazo reaction EPA-BIOP-345 |
| Serum/Plasma | Bilirubin (total) | Diazonium Salt EPA-BIOP-344 |
| Serum/Plasma/Urine | Calcium | Arsenazo III EPA-BIOP-339 |
| Serum/Plasma | Cholesterol | Enzymatic EPA-BIOP-337 |
| Serum/Plasma/Urine | Chloride | Ion selective electrode (ISE) – Indirect EPA-BIOP-361 |
| Serum/Plasma/Urine | Creatinine | Enzymatic EPA-BIOP-307 |
| Serum/Plasma | C-Reactive Protein | Turbidimetric/Immunoturbidimetric EPA-BIOP-351 |
| Serum/Plasma | Creatinine Kinase | NAC (N-acetyl-L-cysteine) EPA-BIOP-350 |
| Serum/Plasma | Digoxin | Particle-enhanced turbidimetric inhibition assay (PETINIA) EPA-BIOP-320 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> (cont'd): | In house methods in conjunction with manufacturer's instructions using: In house methods in conjunction with Abbott Alinity C and I instructions (EPA-BIOP-300) using: |
| Serum/Plasma | Gammaglutamyl transferase | L-Gamma-glutamyl-3-carboxy-4-nitroanilide substrate EPA-BIOP-353 |
| Serum/Plasma | Gentamicin | Particle-enhanced turbidimetric inhibition immunoassay (PETINIA) EPA-BIOP-321 |
| Serum/Plasma/Urine/CSF | Glucose | Enzymatic (Hexokinase/G-6-PDH) EPA-BIOP-328 |
| Serum/Plasma | Ultra-High Density Lipoprotein (HDL) Cholesterol | Accelerator Selective Detergent EPA-BIOP-317 |
| Serum/Plasma | Iron | Ferene EPA-BIOP-354 |
| Plasma/CSF | Lactate | Lactic acid to pyruvate EPA-BIOP-341 |
| Serum/Plasma | Lactate Dehydrogenase (LDH) | IFCC recommended forward reaction - Lactate to Pyruvate EPA-BIOP-310 |
| Serum/Plasma | Lithium | Spectrophotometric method (colorimetric) EPA-BIOP-322 |
| Serum/Plasma | Magnesium | Enzymatic EPA-BIOP-311 |
| Urine | Micro albumin | Turbidimetric/immunoturbidimetric EPA-BIO-343 |
| Serum/Plasma | Phenytoin | Enzymatic EPA-BIOP-347 |
| Serum/Plasma/Urine | Phosphate | Phosphomolybdate EPA-BIOP-355 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> (cont'd): | In house methods in conjunction with manufacturer's instructions using: In house methods in conjunction with Abbott Alinity C and I instructions (EPA-BIOP-300) using: |
| Serum/Plasma/Urine | Potassium | Ion selective electrode (ISE) – Indirect EPA-BIOP-361 |
| Serum | Rheumatoid Factor | Immuno Turbidimetric EPA-BIOP-339 |
| Serum/Plasma | Salicylate (Aspirin) | Enzymatic/Colorimetric EPA-BIOP-313 |
| Serum/Plasma/Urine | Sodium | Ion selective electrode (ISE) – Indirect EPA-BIOP-361 |
| Serum/Plasma | Theophylline | Enzymatic EPA-BIOP-346 |
| Serum/Plasma | Tobramycin | Particle-enhanced turbidimetric inhibition immunoassay (PETINIA) EPA-BIOP-359 |
| Serum/Plasma | Total Protein | Biuret EPA-BIOP-338 |
| Urine/CSF | Total Protein | Benzethonium Chloride EPA-BIOP-362 |
| Serum/Plasma | Transferrin | Immunoturbidimetric EPS-BIOP-356 |
| Serum/Plasma | Triglycerides | Glycerol Phosphate Oxidase EPA-BIOP-315 |
| Serum/Plasma/Urine | Urate/Uric Acid | End point uricase EPA-BIOP-357 |
| Serum/Plasma/Urine | Urea | Urease EPA-BIOP-318 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> (cont'd): | In house methods in conjunction with manufacturer's instructions using: In house methods in conjunction with Abbott Alinity C and I instructions (EPA-BIOP-300) using: |
| Serum/Plasma | Vancomycin | Particle-enhanced turbidimetric inhibition immunoassay (PETINIA) EPA-BIOP-358 |
| Serum/Plasma | Anti-CCP | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-304 |
| Serum/Plasma | Beta-Human Choronic Gonadotrophin | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-348 |
| Serum/Plasma | Carcinoembryonic antigen (CEA) | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-306 |
| Serum/Plasma | Cortisol | One step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-302 |
| Serum/Plasma | Ferritin | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-308 |
| Serum/Plasma | Folate | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-340 |
| Serum/Plasma | Free T3 (3,5,3' Triiodothyronine) | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-352 |
| Serum/Plasma | Free T4 (Thyroxine) | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-309 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> (cont'd): | In house methods in conjunction with manufacturer's instructions using: In house methods in conjunction with Abbott Alinity C and I instructions (EPA-BIOP-300) using: |
| Serum/Plasma | Follicle Stimulating Hormone (FSH) | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-324 |
| Serum/Plasma | Luteinising Hormone (LH) | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-327 |
| Serum/Plasma | Methotrexate | One step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-323 |
| Serum/Plasma | Progesterone | One step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-326 |
| Serum | Prostate Specific Antigen (PSA) | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-312 |
| Serum/Plasma | Sex Hormone Binding Globulin (SHBG) | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-325 |
| Serum/Plasma | Thyroid Stimulating Hormone (TSH) | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-316 |
| Plasma | Hs Troponin I | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-314 |
| Serum/Plasma | Vitamin B12 | Two step chemiluminescent micro particle immunoassay (CMIA) EPA-BIOP-335 |
| Serum/Plasma | Vitamin D | One step immunoassay using chemiluminescent microparticle immunoassay (CMIA) EPA-BIOP-319 |



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| Serum/Plasma/Urine | <p>Calculated tests: Adjusted Calcium Acute Kidney Injury (AKI) 24hr urine Calcium 24hr urine Chloride 24hr urine Creatinine 24 hr urine Phosphate 24hr urine Sodium 24hr urine Urate 24hr urine Electrolytes Electrolytes (non 24hr) Creatinine Clearance eGFR (EPI) Globulin HDL/Total Cholesterol Ratio LDL Urine Albumin-Creatinine Ratio Urine Protein Excretion</p> <p><u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u></p> | <p>In house methods in conjunction with manufacturer's instructions using:</p> <p>Roche Cobas 6000 - e601 Immunoassay with ECL detection</p> |
| Serum | CA 19-9 | EBN-ASCP-011 |
| Serum | CA 125 | EBN-ASCP -054 |
| Serum | CA 153 | EBN-ASCP-012 |
| Serum/ Li-Hep | NT-ProBNP | EBN-ASCP-032 |
| Serum | Estradiol | EBN-ASCP-010 |
| Serum | Testosterone | EBN-ASCP-028 |
| EDTA plasma | Parathyroid Hormone | EBN-ASCP-055 |
| Serum | Anti-TPO | EBN-ASCP-013 |
| Serum | AFP | EBN-ASCP-014 |
| Serum | P1NP | EBN-ASCP-056 |
| EDTA plasma | CTX | EBN-ASCP-016 |



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| HUMAN BODY FLUIDS (cont'd) | <u>Clinical Chemistry examination activities for the purpose of clinical diagnosis</u> (cont'd): | In house methods in conjunction with manufacturer's instructions using: |
| Serum | Thyroglobin | Siemens Immulite 2000 Chemiluminescent immunoassay EBN-ASCP-051 |
| Serum | Prolactin | EBN-ASCP-030 |
| Serum | IGF-1 | EBN-ASCP-033 |
| Serum | ATG | EBN-ASCP-017 |
| Serum | Growth Hormone | EBN-ASCP-053 |
| Serum | DHEAS | EBN-ASCP-018 |
| EDTA plasma | ACTH | EBN-ASCP-052 |
| Serum | TSI | EBN-ASCP-019 |
| EDTA Whole Blood | HbA1c | Menarini Hb9210, boron affinity chromatography EBN-BIOP-016 |
| Sweat | Chloride | Wescor Chlorocheck, coulometric titration EBN-BIOP-005 |
| Serum/Plasma/Urine | Osmolality | Freezing point depression in conjunction with Advanced Osmometer EPA-BIOP-004 |
| CSF | Xanthochromia | Spectrophotometry EBN-BIOP-110 |
| Pre-extracted faeces | Haemoglobin (quantitative) | OC Sensor io Immunoturbidimetry EBN-ASCP-022 |
| CSF, serum | Oligoclonal Bands | Sebia Hydrasys2 Isoelectric focusing using Hydrigel 9 EBN-ENDP-009 |



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| HUMAN BODY FLUIDS | <p><u>Clinical Chemistry examination activities for the purpose of clinical diagnosis: (cont'd)</u></p> <p><u>Trisomy Screening</u></p> | <p>In house methods in conjunction with manufacturer's instructions using:</p> <p>Documented in-house methods to meet the requirements of the Foetal Anomaly Screening Programme as defined in the July 2018 Foetal Anomaly Screening Laboratory QA evidence requirements.</p> |
| Serum | Quantitation of: Free beta hCG | Perkin Elmer AutoDelfia fluorescence immunoassay EBN-ASCP-045 |
| Serum | PAPP-A | EBN-ASCP-046 |
| END | | |