**Blood Sciences Test Database**

**Internal Tests Biochemistry**

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| **Assay** | **Turnaround-time**  **(M-F 9-4.30)** | | | **Available, out-of-hours, BH, weekends** | **Sample type** | **Notes** |
| **Inpatient** | **GP/OP** | **Urgent requests** |
| **COMMON TESTS** |  | | |  |  |  |
| Blood gases | - | - | 30mins | Yes | Heparinised syringe |  |
| COHb | - | - | 30mins | Yes | Dark Green |  |
| MetHb | - | - | 30mins | Yes | Dark Green |  |
| U/E | 4h | 24h | 90mins | Yes | 4ml Yellow |  |
| LFT | 4h | 24h | 90mins | Yes | 4ml Yellow |  |
| Bone profile | 4h | 24h | 90mins | Yes | 4ml Yellow |  |
| Amylase | 4h | 24h | 90mins | Yes | 4ml Yellow |  |
| Glucose | 4h | 24h | 90mins | Yes | 4ml Grey |  |
| Troponin | 2h | 2h | 90mins | Yes | 4ml Yellow |  |
| HCG | 4h | 24h | - | Limited service | 4ml Yellow | Routine samples must reach lab by midday Saturday/Sunday. Outside of these times or for faster turnaround, the Duty Biochemist may need to be contacted. |
| Ammonia | - | - | 90mins | Yes | 1.3ml Purple |  |
| Lactate | - | - | 90mins | Yes | 4ml Grey – limited stability |  |
| Chloride | - | - | 90mins | Yes | 4ml Yellow |  |
| AST | 4h | 24h | - | - | 4ml Yellow |  |
| LDH | 4h | 24h | - | - | 4ml Yellow |  |
| Bicarbonate-serum | 4h | 4h | 90mins | Yes | 4ml Yellow |  |
| Bile acids | 4h | 24h | - | DB | 4ml Yellow | 4h TAT applies to PRH only |
| Bilirubin – Direct Fraction | 4h | 24h | 90mins | Yes | 4mil Yellow |  |
| CK | 4h | 24h | 90mins | Yes | 4ml Yellow |  |
| HbA1c | 72h | 72h | - | - | 4ml Purple |  |
| Lipids | 4h | 24h | - | Yes | 4ml Yellow |  |
| Magnesium | 4h | 24h | 90mins | Yes | 4ml Yellow |  |
| Uric Acid | 4h | 24h | 90mins | Yes | 4ml Yellow |  |
| **URINE** |  |  |  |  |  |  |
| Urine U&E | 4h | 24h | 90mins | Yes | Fresh random (plain) |  |
| Urine calcium | 48h | 48h | - | - | 24h collection (plain) |  |
| Urine Phosphate | 48h | 48h | - | - | 24h collection (plain) |  |
| Bence Jones Protein - Urine | 10d | 10d | - | - | Fresh random (EMU preferred) (plain) |  |
| Microalbumin - Urine | 4h | 24h | - | - | Fresh random (EMU preferred) (plain) |  |
| Protein - Urine | 4h | 24h | 90mins | Yes | Fresh random – not EMU (plain) |  |
| **CSF** |  |  |  |  |  |  |
| Glucose - CSF |  |  |  |  | 0.5ml Grey |  |
| Lactate - CSF |  |  |  |  | 0.5ml Grey |  |
| Protein - CSF | 4h | - | 90mins | Yes | 0.5ml (plain container) |  |
| Xanthochromia | 2h | - | - | DB | 2ml (plain universal container) |  |
| **DRUGS** |  |  |  |  |  |  |
| Alcohol | 7d | 7d | - | - | 4ml Grey | Limited service available only for non-legal cases. RSH only |
| Carbamazepine | 4h | 24h | 90mins | DB | 4ml Yellow | 4h/90min applies to RSH only |
| Digoxin | 4h | 24h | 90mins | DB | 4ml Yellow |  |
| Iron | - | - | 90mins | Yes | 4ml Yellow | 90min applies to PRH only. Overdose only |
| Lithium | 24h | 24h | 90mins | DB | 4ml Yellow |  |
| Paracetamol | - | - | 90mins | Yes | 4ml Yellow |  |
| Phenytoin | 4h | 24h | 90mins | DB | 4ml Yellow | TAT applies to RSH only |
| Salicylate | - | - | 90mins | Yes | 4ml Yellow |  |
| Theophyline | 4h | 24h | 90mins | DB | 4ml Yellow | TAT applies to RSH only |
| **ENDOCRINE** |  |  |  |  |  |  |
| AMH | 7d | 7d | - | - | 4ml Yellow |  |
| Cortisol | 24h | 48h | - | - | 4ml Yellow |  |
| freeT3 | 48h | 72h | - | - | 4ml Yellow |  |
| freeT4 | 24h | 48h | - | - | 4ml Yellow |  |
| FSH | 24h | 48h | - | - | 4ml Yellow |  |
| LH | 24h | 48h | - | - | 4ml Yellow |  |
| Oestradiol | 24h | 48h | - | - | 4ml Yellow | Same day service for ovulation induction only. |
| Progesterone | 24h | 48h | - | - | 4ml Yellow |  |
| Prolactin | 24h | 48h | - | - | 4ml Yellow |  |
| PTH | 24h | 48h | - | - | Purple with White ring |  |
| SHBG | 24h | 48h | - | - | 4ml Yellow |  |
| Testosterone (male only) | 24h | 48h | - | - | 4ml Yellow |  |
| Thyroid peroxidase antibodies | 24h | 48h | - | - | 4ml Yellow |  |
| TSH | 24h | 48h | - | - | 4ml Yellow |  |
| Vitamin D (25-OH) | 24h | 48h | - | - | 4ml Yellow |  |
| **TUMOUR MARKERS** |  |  |  |  |  |  |
| AFP | 24h | 48h | - | - | 4ml Yellow |  |
| CA125 | 24h | 48h | - | - | 4ml Yellow |  |
| CA153 | 7d | 7d | - | - | 4ml Yellow |  |
| CEA | 24h | 48h | - | - | 4ml Yellow |  |
| PSA | 24h | 48h | - | - | 4ml Yellow |  |
| **SPECIFIC PROTEINS** |  |  |  |  |  |  |
| Alpha 1 antitrypsin | 48h | 48h | - | - | 4ml Yellow |  |
| C3 | 24h | 24h | - | - | 4ml Yellow |  |
| C4 | 24h | 24h | - | - | 4ml Yellow |  |
| CRP | 4h | 24h | 90mins | Yes | 4ml Yellow |  |
| Cryoglobulins | 10d | 10d | - | - | 6ml Yellow x2 at 37c |  |
| Electrophoresis/Immunofixation | 10d | 10d | - | - | 4ml Yellow |  |
| IgA | 10d | 10d | - | - | 4ml Yellow |  |
| IgG | 10d | 10d | - | - | 4ml Yellow |  |
| IgM | 10d | 10d | - | - | 4ml Yellow |  |
| IgE | 10d | 10d | - | - | 4ml Yellow |  |
| Procalcitonin | 24h | - | Same day |  | 4ml Yellow |  |
| RAST tests | - | 1month | - | - | 4ml Red | depending on panel and results |
| Rheumatoid factor | 1d | 1d | - | - | 4ml Yellow |  |
| **OTHERS** |  |  |  |  |  |  |
| CCP antibody screen | 7d | 7d | - | - | 4ml Yellow |  |
| NT-proBNP | 24h | 48h | - | - | 4ml Yellow |  |
| Osmolality - Serum | 24h | 24h | DB | DB | 4ml Yellow |  |
| Osmolality - Urine | 24h | 24h | DB | DB | Fresh random (plain) |  |
| PlGF | 48h | 48h | - | - | 4ml Purple |  |
| Sweat test (analysis only) | 4h | - | - | - |  |  |
| Tissue transglutaminase IgA antibody | 7d | 7d | - | - | 4ml Yellow |  |
| Tissue transglutaminase IgG antibody | 7d | 7d | - | - | 4ml Yellow |  |

**Internal Tests Haematology**

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| **Assay** | **Turnaround-time (M-F 9-5.30)** | | | **Sample type** | **Notes** |
| **Inpatient** | **GP/OP** | **Urgent requests** |
| Full Blood Count | 4h | 24h | 1h | 4ml Purple |  |
| Blood film examination | 24h | 24h | 2h | 4ml Purple |  |
| Bone Marrow Aspirate Examination | 2wk | NA | 12h | Bone Marrow Aspirate | Results for referred tests may take up to 2wks to be reported. |
| ESR | 6h | 24h | 2h | 4ml Purple |  |
| Reticulocyte | 4h | 24h | 1h | 4ml Purple |  |
| IM screen | 24h | 24h | 6h | 4ml Purple |  |
| Sickle screen | 4h | N/A | 1h | 4ml Purple |  |
| Malaria screen | 1h | 1h | 1h | 4ml Purple | 2hr for full report |
| Vitamin B12/folate | 48h | 48h | N/A | 4ml Yellow |  |
| Ferritin | 48h | 48h | N/A | 4ml Yellow |  |
| Intrinsic factor antibody | 6wk | 6wk | N/A | 4ml Yellow |  |
| Prothrombin time | 4h | 24h | 1h | 3.5ml light blue | Dosing advice may take up to 24hr |
| APTT | 4h | 24h | 1h | 3.5ml light Blue |  |
| Coagulation screen | 4h | 24h | 1h | 3.5ml light Blue |  |
| D-Dimer | 1h | 1h | 1h | 3.5ml light Blue |  |
| Intrinsic/Extrinsic factor assays (VIII, IX, XI, XII) | 6wk | 6wk | 48h | 3.5ml light Blue |  |
| Factor Xa (Heparin) Assay | 1wk | 1wk | 48h | 3.5ml light Blue |  |
| Lupus screen | 6wk | 6wk | N/A | 3 x 3.5ml light Blue + 6ml Red if ACA required |  |
| Anticardiolipin antibodies | 6wk | 6wk | N/A | 6ml Red |  |
| Haemoglobin electrophoresis A/N | N/A | 3 working days | N/A | 4ml Purple | Full report may take longer if referred elsewhere |
| Haemoglobin electrophoresis Other | N/A | 1wk | N/A | 4ml Purple | Initial report within 1wk – full report may take longer if referred elsewhere |

**[End of Document]**