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| AMMONIA & ETHANOL | | LIQUID SAMPLE | | MARCH & SEPTEMBER |
|-------------------|--------------|---------------|--------------------------------------|-------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| AEAMM | Ammonia | umol/l | 3 | 20 |
| AEETH | Ethanol | mmol/l | 3 | 20 |

| BLOOD GAS | | AQUEOUS SOLUTION | | JANUARY & JULY |
|--------------|-----------------|------------------|--------------------------------------|----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| CALC | Ionised Calcium | mmol/l | 1 | 10 |
| CHLOR | Chloride | mmol/l | 1 | 3.3 |
| LAC | Lactic Acid | mmol/l | 1 | 20 |
| LITH | Lithium | mmol/l | 1 | 12 |
| PCO2 | pCO2 | mmHg | 1 | 8 |
| PH | pH | n/a | 3 | 0.5 |
| PO2 | pO2 | mmHg | 1 | 12 |
| POT | Potassium | mmol/l | 1 | 8 |
| SOD | Sodium | mmol/l | 1 | 3 |
| TCO2 | Total CO2 | mmol/l | 1 | 9 |
| GLU | Glucose | mmol/l | 1 | 7.4 |

Blood Gas EQA Programme:

If the PO2 mean values are <100 mmHg, all values within the range +/- 15 mmHg of the mean will be considered to be acceptable. If the Ionised Calcium mean values are <0.8 mmol/l, all values within the range +/- 0.1 mmol/l of the mean will be considered to be acceptable.

| BNP | | LIQUID HUMAN SERUM | | JANUARY & JULY |
|--------------|--------------|--------------------|--------------------------------------|----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| BNBNP | BNP | pmol/l | 3 | 20 |

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| CARDIAC | | LYOPHILISED HUMAN SERUM | | MARCH & SEPTEMBER |
|--------------|-------------------------|-------------------------|-----------------------------------|-------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| CRCK | CK Total | U/l | 3 | 20 |
| CRMBA | CK-MB Activity | U/l | 3 | 20 |
| CRMBM | CK-MB Mass | ng/ml | 3 | 20 |
| CRMHO | Homocysteine | umol/l | 3 | 25 |
| CRMY | Myoglobin | ng/ml | 3 | 28 |
| CRTRI | Troponin I | ng/ml | 3 | 23 |
| CRTRC | Troponin T Categories | Categories | 1 | n/a |
| CRTRT | Troponin T Quantitative | ng/ml | 3 | 23 |
| CRTTI | Troponin T Qualitative | Interpretation | n/a | n/a |

Cardiac EQA Programme:

If CK-MB Activity mean values are <20 U/l, all values within the range +/- 4 U/l of the mean will be considered to be acceptable. If Troponin T Quantitative mean values are <0.1, all values within the range +/- 0.023 of the mean will be considered to be acceptable.

| CLINICAL MICROBIOLOGY | | KWIK-STIK LYOPHILISED PELLET | | APRIL & OCTOBER |
|-----------------------|--------------------------------------|------------------------------|--------------------------------------|-----------------|
| Analyte Code | Analyte Name | Analyte Unit | Return Name | Acceptable CV |
| | Organism ID | | Organism ID | n/a |
| | Microbial Susceptibility Antibiogram | | Microbial Susceptibility Antibiogram | n/a |

| CSF | | LYOPHILISED CEREBROSPINAL FLUID | | FEBRUARY & AUGUST |
|--------------|---------------|---------------------------------|-----------------------------------|-------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| CSALB | Albumin | mg/l | 1 | 20 |
| CSCHL | Chloride | mmol/l | 1 | 20 |
| CSGLU | Glucose | mmol/l | 1 | 20 |
| CSIGG | IgG | mg/l | 1 | 20 |
| CSLAC | Lactic Acid | mmol/l | 1 | 20 |
| CSPRT | Total Protein | mg/l | 1 | 20 |
| CSSOD | Sodium | mmol/l | 1 | 20 |

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| CLINICAL CHEMISTRY | | LYOPHILISED HUMAN SERUM | | MARCH & SEPTEMBER |
|--------------------|-----------------------------|-------------------------|--------------------------------------|-------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| ALB | Albumin | g/l | 3 | 7 |
| ALT | Alanine Transaminase | U/l | 3 | 20 |
| AMY | Amylase | U/l | 3 | 19 |
| APH | Alkaline Phosphatase | U/l | 3 | 18 |
| APP | Acid Phosphatase, Prostatic | U/l | 3 | 12 |
| APT | Acid Phosphatase, Total | U/l | 3 | 12 |
| AST | Aspartate Transaminase | U/l | 3 | 17 |
| BIC | Bicarbonate | mmol/l | 1 | 15 |
| BILE | Bile Acid | umol/l | 1 | 20 |
| BILD | Bilirubin - Direct | umol/l | 3 | 36 |
| BILDN | Bilirubin - Neonatal | umol/l | 1 | 20 |
| BIL | Bilirubin - Total | umol/l | 3 | 20 |
| CAL | Calcium | mmol/l | 2 | 4.4 |
| CCCALI | Calcium - Ionised | mmol/l | 1 | 4.4 |
| CHL | Chloride | mmol/l | 2 | 3.3 |
| CHO | Cholesterol | mmol/l | 2 | 13 |
| CCCHE | Cholinesterase | U/l | 3 | 14 |
| CKT | Creatine Kinase - Total | U/l | 3 | 20 |
| COP | Copper | umol/l | 1 | 13 |
| CRE | Creatinine | umol/l | 2 | 10 |
| CCD3H | D-3-Hydroxybutyrate | mmol/l | 1 | 20 |
| FRUC | Fructosamine | umol/l | 1 | 7 |
| GLU | Glucose | mmol/l | 2 | 7.4 |
| GGT | Glutamyl Transferase | U/l | 3 | 21 |
| HBD | HBDH | U/l | 3 | 12 |
| HDL | HDL-Cholesterol | mmol/l | 3 | 12 |
| FER | Iron | umol/l | 1 | 20 |
| CCLAC | Lactate (Lactic Acid) | mmol/l | 1 | 20 |
| LDH | Lactate Dehydrogenase | U/l | 3 | 15 |
| LIS | Lipase | U/l | 3 | 15 |
| LIT | Lithium | mmol/l | 1 | 12 |
| MAG | Magnesium | mmol/l | 2 | 8 |
| CCNEF | NEFA (Pilot Study) | mmol/l | 1 | 20 |
| OSM | Osmolality | mOsm/Kg | 3 | 3 |
| PHO | Phosphate – Inorganic | mmol/l | 2 | 13 |
| POT | Potassium | mmol/l | 2 | 8 |
| PRT | Protein, Total | g/l | 2 | 6 |
| PSA | PSA | ug/l | 3 | 15 |
| SOD | Sodium | mmol/l | 2 | 3 |
| IBC | TIBC | umol/l | 2 | 20 |
| TRI | Triglycerides | mmol/l | 2 | 20 |
| UAC | Uric Acid | mmol/l | 2 | 15 |
| URE | Urea | mmol/l | 2 | 15 |
| ZIN | Zinc | umol/l | 1 | 14 |

Chemistry EQA Programme:

If Bilirubin Total and Neonatal mean values are <20 µmol/l, all values within the range +/- 4 µmol/l of the mean will be considered to be acceptable. If Bilirubin Direct mean values are <20 µmol/l, all values within the range +/- 7 µmol/l of the mean will be considered to be acceptable. If Bicarbonate mean values are <20 mmol/l, all values within the range +/- 3 mmol/l of the mean will be considered to be acceptable.

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| COAGULATION | | LYOPHILISED HUMAN PLASMA | | JANUARY & JULY |
|----------------------------------|--|---------------------------------|--|---------------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| COFDD | D-dimer Quantitative (Pilot Study) | ug/ml | 3 | 20 |
| COA2P | Factor II Activity | % Activity | 1 | 15 |
| COA5P | Factor V Activity | % Activity | 1 | 15 |
| COA7P | Factor VII Activity | % Activity | 1 | 15 |
| COA8P | Factor VIII Activity | % Activity | 1 | 15 |
| COA9P | Factor IX Activity | % Activity | 1 | 15 |
| COF10P | Factor X Activity | % Activity | 1 | 15 |
| COF11P | Factor XI Activity | % Activity | 1 | 15 |
| COF12P | Factor XII Activity | % Activity | 1 | 15 |
| COFF | Fibrinogen | g/l | 3 | 25 |
| COFPP | Plasminogen Activity | % Activity | 1 | 15 |
| COIAP | Antithrombin III Activity | % Activity | 1 | 15 |
| COICP | Protein C Activity | % Activity | 1 | 15 |
| COISP | Protein S Activity | % Activity | 1 | 15 |
| COTAS COTAR | APTT: Activated Partial Thromboplastin | Seconds | 3 | 20 |
| | | RATIO | | |
| | | Other | | |
| COTPS COTPR COTPI COTPP | PT: Prothrombin Time | Seconds | 3 | 20 |
| | | RATIO | | |
| | | INR | | |
| | | % Activity | | |
| | Other | | | |
| COTT | TT: Thrombin Time | Seconds | 3 | 15 |

| DIFFERENTIAL SLIDE | | BLOOD SMEARS | | JUNE & DECEMBER |
|---------------------------|---------------------|---------------------|--|----------------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| | Differential count | n/a | 1 | n/a |
| | Morphology | n/a | 1 | n/a |

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| 5 Part Diff CBCX | | HUMAN WHOLE BLOOD | | JULY AND DECEMBER |
|------------------|--------------|---------------------|--------------------------------------|-------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| HHB | Haemoglobin | g/dl | 1 | 7 |
| HHCT | HCT | % or L/L | 1 | 6 |
| HMCH | MCH | pg | 1 | 6 |
| HMCHC | MCHC | g/dl | 1 | 6 |
| HMCV | MCV | fl | 1 | 6 |
| HMPV | MPV | fl | 1 | 20 |
| HPLT | Platelets | 10 ⁹ /l | 1 | 19 |
| HRBC | RBC | 10 ¹² /l | 1 | 6 |
| HWBC | WBC | 10 ⁹ /l | 1 | 15 |
| HRDW | RDW | % | 1 | 4.6 |
| NEUTCX | Neut | % | 2 | 20 |
| LYMPHCX | Lymph | % | 2 | 20 |
| MONOCX | Mono | % | 2 | 20 |
| EOCX | Eo | % | 2 | 20 |
| BACX | Baso | % | 2 | 20 |
| NEUTACX | Neut # | 10 ⁹ /l | 2 | 20 |
| LYMPHACX | Lymph # | 10 ⁹ /l | 2 | 20 |
| MONOACX | Mono # | 10 ⁹ /l | 2 | 20 |
| EOACX | Eo # | 10 ⁹ /l | 2 | 20 |
| BASOACX | Baso # | 10 ⁹ /l | 2 | 20 |

| ESR | | WHOLE BLOOD | | APRIL & OCTOBER |
|--------------|--------------|--------------|--------------------------------------|-----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| ESR | ESR | mm/hr | 2 | 30 |

ESR EQA Programme:

If ESR mean values are <10 mm/hr, all values within the range +/- 3 mm/hr of the mean will be considered to be acceptable.

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| FORENSIC | | DRIED BLOOD SPOTS | | MARCH & SEPTEMBER |
|--------------|--------------|-------------------|--------------------------|-------------------|
| Analyte Code | Analyte Name | Analyte Unit | Return Name | Acceptable CV |
| | DNA SPOTS | n/a | Crime scene DNA matching | n/a |

| GLYCOSYLATED HAEMOGLOBIN (HbA1c) | | LYOPHILISED HUMAN WHOLE BLOOD | | JANUARY & JULY |
|----------------------------------|--------------------------|-------------------------------|-----------------------------------|----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| GDN | Glycosylated Haemoglobin | % | 1 | 20 |

| HAEMATOLOGY | | HUMAN WHOLE BLOOD SAMPLES | | MARCH & SEPTEMBER |
|--------------|--------------|---------------------------|-----------------------------------|-------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| HHB | Haemoglobin | g/dl | 3 | 7 |
| HHCT | HCT | % or L/L | 3 | 6 |
| HMCH | MCH | pg | 3 | 6 |
| HMCHC | MCHC | g/dl | 3 | 6 |
| HMCV | MCV | fl | 3 | 6 |
| HMPV | MPV | fl | 3 | 20 |
| HPLT | Platelets | 10 ⁹ /l | 3 | 19 |
| HPCT | Plateletcrit | % or L/L | 3 | 20 |
| HRBC | RBC | 10 ¹² /l | 3 | 6 |
| HWBC | WBC | 10 ⁹ /l | 3 | 15 |
| HRDW | RDW CV | % | 3 | 4.6 |
| HRDW | RDW SD | fl | 3 | 20 |

Haematology EQA Programme:

If RDW CV mean values are <15%, all values within the range of +/- 5.6% of the mean will be considered to be acceptable.

| HIV SEROLOGY | | HUMAN SERUM | FEBRUARY & AUGUST |
|--------------|------------------|-----------------------------------|-------------------|
| Analyte Code | Analyte Name | Stat Level (For Thistle use only) | Acceptable CV |
| HIVN | HIV Quantitative | 3 | 20 |
| HIVQ | HIV Qualitative | 3 | n/a |

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| HUMAN PROTEINS | | LIQUID HUMAN SERUM | | MARCH & SEPTEMBER |
|----------------|-------------------------------|--------------------|--------------------------------------|-------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| C3 | Complement C3 | g/l | 3 | 12 |
| C4 | Complement C4 | g/l | 3 | 20 |
| CAER | Caeruloplasmin | g/l | 1 | 12 |
| CRP | CRP | mg/l | 3 | 22 |
| CRPI | CRP Qualitative | Interpretation | 1 | n/a |
| FERR | Ferritin | ug/l | 1 | 15 |
| GLOA | Immunoglobulin A (IgA) | g/l | 1 | 19 |
| PIGE | Immunoglobulin E (IgE) | IU/ml | 1 | 30 |
| GLOB | Immunoglobulin G (IgG) | g/l | 1 | 12 |
| GLOM | Immunoglobulin M (IgM) | g/l | 1 | 22 |
| HAPT | Haptoglobin | g/l | 1 | 12 |
| PAFP | AFP | IU/ml | 1 | 20 |
| PALB | Albumin | g/l | 1 | 7 |
| PANTI | Antithrombin III | mg/l | 1 | 14 |
| PASO | ASO Numeric | IU/ml | 1 | 25 |
| PASOI | ASO Qualitative | Interpretation | 1 | n/a |
| PASOT | ASO Titre | Ratio | 1 | n/a |
| PBMIC | β -2-Microglobulin | mg/l | 1 | 15 |
| PGLO2 | α -2-Macroglobulin | g/l | 1 | 12 |
| PGLYI | α -1-Acid Glycoprotein | g/l | 1 | 12 |
| PKLC | Kappa Light Chain, Total | g/l | 1 | 50 |
| PLLC | Lambda Light Chain, Total | g/l | 1 | 50 |
| PRBP | Retinol Binding Protein | mg/l | 1 | 25 |
| PREA | Prealbumin | g/l | 1 | 12 |
| PRF | RF Numeric | IU/ml | 1 | 24 |
| PRFQ | RF Qualitative | Interpretation | 1 | n/a |
| PRFT | RF Titre | Ratio | 1 | n/a |
| TRAN | Transferrin | g/l | 1 | 11 |
| TRYP | Alpha-1-Antitrypsin | g/l | 1 | 16 |
| PKLF | Kappa Light Chain, Free | mg/l | 1 | 50 |
| PLLF | Lambda Light Chain, Free | mg/l | 1 | 50 |

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| IMMUNOASSAY | | LYOPHILISED HUMAN SERUM | | JANUARY & JULY |
|--------------|------------------------------|-------------------------|--------------------------------------|----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| IACTH | ACTH | pmol/l | 3 | 20 |
| IAND | Androstenedione | nmol/l | 3 | 11.1 |
| ..COR | Cortisol | nmol/l | 3 | 25 |
| .PSA | Total PSA | ng/ml | 3 | 25 |
| AFP | AFP | U/ml | 3 | 20 |
| CA125 | CA 125 | U/ml | 3 | 20 |
| CA153 | CA 15-3 | U/ml | 3 | 20 |
| CA199 | CA 19-9 | U/ml | 3 | 20 |
| CEA | CEA | ng/ml | 3 | 20 |
| IEST | Estriol, total (Pilot Study) | nmol/l | 3 | 20 |
| FERR | Ferritin | ng/ml | 3 | 15 |
| FOL | Folate | nmol/l | 3 | 25 |
| FT3 | Free T3 | pmol/L | 3 | 20 |
| FT4 | Free T4 | pmol/L | 3 | 16 |
| HCG | hCG | mIU/ml | 3 | 20 |
| IALD | Aldosterone | pmol/l | 3 | 25 |
| IBMIC | Beta-2-Microglobulin | ug/ml | 3 | 12 |
| ICARB | Carbamazepine | umol/l | 3 | 16 |
| IDHE | DHEA-S | umol/l | 3 | 20 |
| IDIG | Digoxin | nmol/l | 3 | 18 |
| IIGE | Immunoglobulin E | U/ml | 3 | 12 |
| IPHEN | Phenytoin | umol/l | 3 | 16 |
| IPS | Free PSA | ng/ml | 3 | 25 |
| ITHEO | Theophylline | umol/l | 3 | 20 |
| IVALP | Valproic Acid | umol/l | 3 | 17 |
| T3 | T3 | nmol/l | 3 | 16 |
| T4 | T4 | nmol/l | 3 | 15 |
| TSH | TSH | uU/ml | 3 | 20 |
| VB12 | Vitamin B12 | pmol/L | 3 | 20 |
| Z17OH | 17-OH-Progesterone | nmol/l | 3 | 20 |
| ZFSH | FSH | mIU/ml | 3 | 20 |
| ZGH | GH | uU/ml | 3 | 25 |
| ZLH | LH | mIU/ml | 3 | 20 |
| ZOEST | Oestradiol | pmol/l | 3 | 20 |
| ZPRL | Prolactin | uU/ml | 3 | 20 |
| ZPROG | Progesterone | nmol/l | 3 | 25 |
| IPHEB | Phenobarbital | umol/l | 3 | 16 |
| ZTEST | Testosterone | nmol/l | 3 | 22 |
| IDHU | DHEA, unconjugated | nmol/l | 3 | 10 |
| IINS | Insulin | uU/ml | 3 | 25 |
| IPTH | PTH | pmol/l | 3 | 25 |
| ISHB | SHBG | nmol/l | 3 | 21 |
| ITG | Thyroglobulin | ng/ml | 3 | 17.8 |

IMMUNOASSAY EQA Programme:

If HCG mean values are <20 mIU/ml, all values within the range +/- 4 mIU/ml of the mean will be considered to be acceptable.

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| IMMUNOASSAY SPECIALITY 1 | | LYOPHILISED HUMAN SERUM | | JANUARY AND JULY |
|--------------------------|-----------------------------------|-------------------------|-----------------------------------|------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| TIVD125 | 1-25-(OH) ₂ -Vitamin D | pmol/l | 3 | 20 |
| TIVD25 | 25-OH-Vitamin D | nmol/l | 3 | 20 |
| TIATG | Anti-TG | kU/l | 3 | 20 |
| TIATP | Anti-TPO | kU/l | 3 | 20 |
| TICPT | C-Peptide | nmol/l | 3 | 20 |
| TIIGF | IGF-1 | ug/l | 3 | 20 |
| TIOST | Osteocalcin | ug/l | 3 | 20 |
| TIPTH | PTH | pmol/l | 3 | 20 |
| TIPCT | Procalcitonin | ug/l | 3 | 20 |
| TIINS | Insulin | uU/ml | 3 | 20 |

| IMMUNOASSAY SPECIALITY 2 | | LYOPHILISED HUMAN SERUM | | JANUARY AND JULY |
|--------------------------|-----------------------------|-------------------------|-----------------------------------|------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| RIPCT | Procalcitonin | ug/l | 3 | 20 |
| RICAL | Calcitonin | pmol/l | 3 | 20 |
| RIGAS | Gastrin | pmol/l | 3 | 20 |
| RIPRA | Plasma Renin Activity | ug/l/h | 3 | 20 |
| RIPRD | Renin, direct concentration | mIU/l | 3 | 20 |

| LIPID | | LYOPHILISED HUMAN SERUM | | JANUARY & JULY |
|--------------|-------------------|-------------------------|-----------------------------------|----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| LTCHO | Cholesterol Total | mmol/l | 1 | 13 |
| LTHDL | HDL-Cholesterol | mmol/l | 3 | 12 |
| LTLDL | LDL-Cholesterol | mmol/l | 3 | 20 |
| LTTRI | Triglycerides | mmol/l | 1 | 20 |
| TAPOA | Apolipoprotein A1 | g/l | 1 | 12 |
| TAPOB | Apolipoprotein B | g/l | 1 | 12 |
| TAPAA | Lipoprotein (a) | mg/dl | 1 | 21 |

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| LIQUID CARDIAC | | LIQUID HUMAN SERUM | | JANUARY & JULY |
|----------------|-------------------------------|--------------------|--------------------------------------|----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| LCCKM | CKMB mass | ug/l | 3 | 20 |
| LCDIG | Digoxin | nmol/l | 3 | 18 |
| LCHO | Homocysteine | umol/l | 3 | 25 |
| LCHSC | HS-CRP (High Sensitivity CRP) | mg/l | 3 | 22 |
| LCMY | Myoglobin | ug/l | 3 | 28 |
| LCNTP | NT- ProBNP | pmol/l | 3 | 20 |
| LCTRC | Troponin T Categories | Categories | 1 | n/a |
| LCTRI | Troponin I | ug/l | 3 | 23 |
| LCTRT | Troponin T | ug/l | 3 | 23 |
| LCDDI | D-dimer Quantitative | ug/ml | 3 | 20 |
| LCDIN | D-dimer Interpretation | Interpretation | 3 | n/a |

| MATERNAL SCREENING | | LYOPHILISED HUMAN SERUM | | JANUARY & JULY |
|--------------------|----------------------|-------------------------|--------------------------------------|----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| MSAFP | AFP | kU/l | 3 | 20 |
| MSHCB | HCG, Free Beta | U/l | 3 | 20 |
| MSHCT | HCG, Total | U/l | 3 | 20 |
| MSINA | Inhibin A | ng/l | 3 | 20 |
| MSPPA | PAPP-A | U/l | 3 | 20 |
| MSUE3 | Unconjugated Estriol | nmol/l | 3 | 20 |

| PREGNANCY | | LYOPHILISED HUMAN SERUM | | APRIL & OCTOBER |
|--------------|------------------|-------------------------|--------------------------------------|-----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| hCG | hCG Quantitative | mIU/ml | 1 | 20 |
| hCGQ | hCG Qualitative | Interpretation | 1 | n/a |

Pregnancy EQA Programme:

If Pregnancy mean values are <20 mIU/ml, all values within the range +/- 4 mIU/ml of the mean will be considered to be acceptable.

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| Serology (Epstein Barr Virus) | | LIQUID HUMAN SERUM | | |
|-------------------------------|------------------|--------------------|-----------------------------------|---------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| VEEBN | Anti-EBNA IgG | U/ml | | |
| VEEBV | Anti-EBV VCA IgG | U/ml | | |
| VEEBVM | Anti-EBV VCA IgM | U/ml | | |

| Serology (HIV\Hepatitis) | | LIQUID HUMAN SERUM | | |
|--------------------------|------------------------|--------------------|-----------------------------------|---------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| VHCMV | Anti-CMV (Total) | | | |
| VHHBC | Anti-HBc | | | |
| VHHBS | HBsAg | | | |
| VHHCV | Anti-HCV | | | |
| VHHIV1 | Anti-HIV-1 | | | |
| VHHIV2 | Anti-HIV-2 | | | |
| VHHIVC | Anti-HIV-1&2 Combi | | | |
| VHHTL1 | Anti-HTLV-I | | | |
| VHHTL2 | Anti-HTLV-II | | | |
| VHHTLC | Anti-HTLV-I & II Combi | | | |

| Serology (Syphilis) | | LIQUID HUMAN SERUM | | |
|---------------------|------------------------|--------------------|-----------------------------------|---------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| VSFTA | Syphilis – FTA-Abs | U/ml | | |
| VSIMM | Syphilis - Immunoassay | U/ml | | |
| VSRRP | Syphilis – RPR | U/ml | | |
| VSRT | Syphilis – Rapid Tests | U/ml | | |
| VSTPHA | Syphilis – TPHA | U/ml | | |
| VSVDRL | Syphilis – VDRL | U/ml | | |

| Serology (Torch) | | LIQUID HUMAN SERUM | | |
|------------------|---------------------|--------------------|-----------------------------------|---------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| VTCMG | Anti-CMV IgG | U/ml | | |
| VTCMM | Anti-CMV IgM | U/ml | | |
| VTHS12G | Anti-HSV1&2 IgG | U/ml | | |
| VTHS12M | Anti-HSV1&2 IgM | U/ml | | |
| VTHS1G | Anti-HSV1 IgG | U/ml | | |
| VTHS1M | Anti-HSV1 IgM | U/ml | | |
| VTHS2G | Anti-HSV2 IgG | U/ml | | |
| VTHS2M | Anti-HSV2 IgM | U/ml | | |
| VTRUG | Anti-Rubella IgG | U/ml | | |
| VTRUM | Anti-Rubella IgM | U/ml | | |
| VTTGO | Anti-Toxoplasma IgG | U/ml | | |
| VTTOM | Anti-Toxoplasma IgM | U/ml | | |

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| THERAPEUTIC DRUGS | | LYOPHILISED HUMAN SERUM | | MARCH & SEPTEMBER |
|-------------------|----------------|-------------------------|--------------------------------------|-------------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| AMIK | Amikacin | umol/l | 1 | 20 |
| BARB | Phenobarbitone | umol/l | 1 | 16 |
| CAFF | Caffeine | umol/l | 1 | 20 |
| CARB | Carbamazepine | umol/l | 1 | 16 |
| CYC | Cyclosporin | nmol/l | 1 | 25 |
| DIG | Digoxin | nmol/l | 1 | 18 |
| ETHO | Ethosuxamide | umol/l | 1 | 12 |
| GENT | Gentamicin | umol/l | 1 | 20 |
| LITH | Lithium | mmol/l | 1 | 12 |
| METH | Methotrexate | umol/l | 1 | 20 |
| PARA | Paracetamol | mmol/l | 1 | 12 |
| PHEN | Phenytoin | umol/l | 1 | 16 |
| PRIE | Primidone | umol/l | 1 | 20 |
| SALI | Salicylic Acid | mmol/l | 1 | 12 |
| THEO | Theophylline | umol/l | 1 | 20 |
| TOBR | Tobramycin | umol/l | 1 | 20 |
| VALP | Valproic Acid | umol/l | 1 | 17 |
| VANC | Vancomycin | umol/l | 1 | 20 |

Therapeutic Drugs EQA Programme:

If Lithium mean values are <12 mmol/l, all values within the range +/- 0.2 mmol/l of the mean will be considered to be acceptable.

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| URINE CHEMISTRY | | LYOPHILISED HUMAN URINE | | JANUARY & JULY |
|-----------------|----------------------|-------------------------|--------------------------------------|----------------|
| Analyte Code | Analyte Name | Analyte Unit | Stat Level (For Thistle use only) | Acceptable CV |
| -ALB | Microalbumin | mg/l | 1 | 15 |
| -AMY | Amylase | U/l | 3 | 19 |
| -CAL | Calcium | mmol/l | 1 | 12 |
| -CHL | Chloride | mmol/l | 1 | 10 |
| -COP | Copper | umol/l | 1 | 25 |
| -COR | Cortisol | nmol/l | 1 | 25 |
| -CRE | Creatinine | mmol/l | 1 | 15 |
| -DOP | Dopamine | nmol/l | 1 | 25 |
| -EPI | Epinephrine | nmol/l | 1 | 33 |
| -GLU | Glucose | mmol/l | 1 | 10 |
| -HIAA | 5-HIAA | umol/l | 1 | 20 |
| -MAG | Magnesium | mmol/l | 1 | 25 |
| -MET | Metanephrine | umol/l | 1 | 33 |
| -NOR | Norepinephrine | nmol/l | 1 | 33 |
| -NORM | Normetanephrine | umol/l | 1 | 33 |
| -OSM | Osmolality | mOsm/kg | 1 | 5 |
| -OXA | Oxalate | mmol/l | 1 | 25 |
| -PHO | Phosphate, Inorganic | mmol/l | 1 | 13 |
| -POT | Potassium | mmol/l | 1 | 10 |
| -PRTA | Protein | g/l | 1 | 10 |
| -SOD | Sodium | mmol/l | 1 | 10 |
| -UACR | ACR (Pilot Study) | Mg/mmol | 1 | 20 |
| -UAC | Uric Acid | mmol/l | 1 | 15 |
| -URE | Urea | mmol/l | 1 | 16 |
| -VMA | VMA | umol/l | 1 | 25 |

Urine Chemistry EQA Programme

If Urine Protein mean values are <1 g/l, all values within the range +/- 0.1 g/l of the mean will be considered to be acceptable.

PLEASE CONTACT THISTLEQA@LGCGROUP.COM IF YOU REQUIRE INFORMATION ON ANY ANALYTE THAT IS NOT AVAILABLE ON THIS LIST.