

**ST. JAMES'S HOSPITAL LABMED DIRECTORATE**

|                      |                |   |                                  |
|----------------------|----------------|---|----------------------------------|
| <b>Edition No.:</b>  | 00             | <b>Biochemistry Working Instruction</b> | <b>Doc No:</b> WI-BIO-0275       |
| <b>Authorised By</b> | Fiona Campbell | <b>Date:</b> 17.09.2020                 | <b>Date of Issue:</b> 17.09.2020 |

**Stability of tests for add-on samples**

| <b>Test</b>              | <b>Sample Type</b>    | <b>Stability @ 15-25°C</b> |
|--------------------------|-----------------------|----------------------------|
| <b>ICU Profile</b>       | Serum/Lithium Heparin | 72 hrs                     |
| <b>Renal Profile</b>     | Serum/Lithium Heparin | 72 hrs                     |
| <b>Liver Profile</b>     | Serum/Lithium Heparin | 24 hrs                     |
| <b>Bone Profile</b>      | Serum/Lithium Heparin | 72 hrs                     |
| <b>Lipid Profile</b>     | Serum/Lithium Heparin | 5 days                     |
| <b>AFP</b>               | Serum/Lithium Heparin | 72 hrs $\alpha$            |
| <b>ALP</b>               | Serum/Lithium Heparin | 5d $\epsilon$              |
| <b>Albumin</b>           | Serum/Lithium Heparin | 4d $\epsilon$              |
| <b>ALT</b>               | Serum/Lithium Heparin | 48 hrs $\epsilon$          |
| <b>Amikacin</b>          | Serum/Lithium Heparin | 48 hrs                     |
| <b>Amylase</b>           | Serum/Lithium Heparin | 7d $\delta$                |
| <b>AST</b>               | Serum/Lithium Heparin | 72 hrs $\epsilon$          |
| <b>BILD</b>              | Serum/Lithium Heparin | 24 hrs $\delta$            |
| <b>Bilirubin Total</b>   | Serum/Lithium Heparin | 24 hrs $\delta$            |
| <b>BNP</b>               | Serum/Lithium Heparin | 72 hrs $\delta$            |
| <b>Ca125</b>             | Serum/Lithium Heparin | 72 hrs $\epsilon$          |
| <b>Carbamazepine</b>     | Serum/Lithium Heparin | 48 hrs                     |
| <b>Ca153</b>             | Serum/Lithium Heparin | 72 hrs $\epsilon$          |
| <b>Ca19.9</b>            | Serum/Lithium Heparin | 72 hrs $\epsilon$          |
| <b>CO2 / Bicarbonate</b> | Serum/Lithium Heparin | 1 hour                     |
| <b>Calcium</b>           | Serum/Lithium Heparin | 5d $\epsilon$              |

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|-----------------------|---------------------------|----------------------------|
| <b>CEA</b>            | Serum/Lithium Heparin     | 72 hrs ε                   |
| <b>Chloride</b>       | Serum/Lithium Heparin     | 7 d δ                      |
| <b>Cholesterol</b>    | Serum/Lithium Heparin     | 7 d δ                      |
| <b>Cholinesterase</b> | Serum/Lithium Heparin     | 7d 2-8°C δ                 |
| <b>CK</b>             | Serum/Lithium Heparin     | 48 hrs δ                   |
| <b>Cortisol</b>       | Serum/Lithium Heparin     | 72 hrs ε                   |
| <b>Creatinine</b>     | Serum/Lithium Heparin     | 72 hrs ε                   |
| <b>CRP</b>            | Serum/Lithium Heparin     | 11d δ                      |
| <b>Digoxin</b>        | Serum                     | 24 hrs ε                   |
| <b>Ethanol</b>        | Serum/Lithium Heparin     | 48 hrs δ                   |
| <b>FSH</b>            | Serum/Lithium Heparin     | 72 hrs ε                   |
| <b>FT4</b>            | Serum/Lithium Heparin     | 72 hrs ε                   |
| <b>HBA1C</b>          | <b>EDTA ONLY</b>          | FBC sample needed          |
| <b>Gentamicin</b>     | Serum/Lithium Heparin     | 72 hrs                     |
| <b>Glucose</b>        | <b>FLOURIDE EDTA ONLY</b> | Separate sample needed     |
| <b>GGT</b>            | Serum/Lithium Heparin     | 48 hrs ε                   |
| <b>HCG</b>            | Serum/Lithium Heparin     | 24 hrs ε                   |
| <b>HDL</b>            | Serum/Lithium Heparin     | 5 d ε                      |
| <b>In. Phos</b>       | Serum/Lithium Heparin     | 72 hrs ε                   |
| <b>Iron</b>           | Serum/Lithium Heparin     | 7 d δ                      |
| <b>LDH</b>            | Serum/Lithium Heparin     | 7 d δ                      |

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|----------------------|-----------------------|----------------------------|
| <b>LH</b>            | Serum/Lithium Heparin | 72 hrs ε                   |
| <b>Lithium</b>       | <b>SERUM ONLY</b>     | 24 hrs                     |
| <b>Magnesium</b>     | Serum/Lithium Heparin | 7 d δ                      |
| <b>Methotrexate</b>  | Serum                 | 24 hrs                     |
| <b>Oestradiol</b>    | Serum/Lithium Heparin | 72 hrs ε                   |
| <b>Paracetamol</b>   | Serum/Lithium Heparin | 24 hrs ε                   |
| <b>Phenytoin</b>     | Serum/Lithium Heparin | 4 Days                     |
| <b>Potassium</b>     | Serum/Lithium Heparin | 72 hrs ε                   |
| <b>Progesterone</b>  | Serum/Lithium Heparin | 72 hrs ε                   |
| <b>Prolactin</b>     | Serum/Lithium Heparin | 5 d α                      |
| <b>PSA- Free</b>     | Serum/Lithium Heparin | 72 hrs ε                   |
| <b>PSA- Total</b>    | Serum/Lithium Heparin | 72 hrs ε                   |
| <b>PTH</b>           | Serum/Lithium Heparin | 6 hrs δ                    |
| <b>Salicycate</b>    | Serum/Lithium Heparin | 7 d α                      |
| <b>SHBG</b>          | Serum/Lithium Heparin | 72 hrs ε                   |
| <b>Sodium</b>        | Serum/Lithium Heparin | 5 d ε                      |
| <b>T3</b>            | Serum/Lithium Heparin | 72 hrs ε                   |
| <b>Testosterone</b>  | Serum/Lithium Heparin | 72 hrs ε                   |
| <b>Theophylline</b>  | Serum/Lithium Heparin | 5 days                     |
| <b>Total Protein</b> | Serum/Lithium Heparin | 5 d ε                      |
| <b>Triglycerides</b> | Serum/Lithium Heparin | 5 d ε                      |
| <b>Troponin</b>      | <b>EDTA ONLY</b>      | 6 hrs α                    |
| <b>TSH</b>           | Serum/Lithium Heparin | 72 hrs ε                   |

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|-------------------|-----------------------|----------------------------|
| <b>TT4</b>        | Serum/Lithium Heparin | 72 hrs $\epsilon$          |
| <b>UIBC</b>       | Serum/Lithium Heparin | 4 d $\delta$               |
| <b>Urea</b>       | Serum/Lithium Heparin | 5 d $\epsilon$             |
| <b>Uric Acid</b>  | Serum/Lithium Heparin | 3 d $\delta$               |
| <b>Vancomycin</b> | Serum                 | 48 hrs                     |
| <b>Vitamin D</b>  | Serum/Lithium Heparin | 3 d $\alpha$               |

$\alpha$  - taken from WHO stability data

$\delta$  - taken from Roche Kit insert

$\epsilon$  - taken from stability data worked up in SJH