

## **i-Smart Electrolyte Analyser** ***Sample Collection and Handling***

- Make sure there are no small air bubbles trapped in the collected sample. Bubbles in the sample can affect the results
- Do not use liquid anticoagulants as they can dilute the sample and affect the results
- Haemolysis at any stage of sample preparation may cause erroneously high potassium results
- If blood is not mixed completely with anticoagulant, blood clots can be partially formed in the sample. Samples containing clots must not be used as clots will cause sampling failure in the cartridge
- Samples in which haemolysis is present or suspected and samples collected more than one hour before analysis must not be used
- **Samples containing clots or fibrin strands must not be used as clots will cause sampling failure in the cartridge and lead to the cartridge requiring replacement at cost to the customer**

### **Whole Blood**

- Use heparinised vacuum blood collection tubes for whole blood
- Collect blood up to the fill indicator on the tube label
- Immediately after collecting blood and before running the sample, gently invert the tube 8 to 10 times to thoroughly mix the blood and anticoagulant

### **Serum**

- Use non-heparinised, plain vacuum blood collection tubes for serum separation
- Collect blood up to the fill indicator on the tube label
- After collection, gently invert the tube five times
- Allow the blood collection tube to **stand vertically for 30 minutes to fully clot** before centrifugation
- Centrifuge the blood sample, then **collect and transfer the serum** (liquid component separated from solid components of blood) **to another clean container**

### **Plasma**

- Use heparinised vacuum blood collection tubes for plasma separation
- Collect blood up to the fill indicator on the label
- Gently invert the tube 8 to 10 times to thoroughly mix the sample
- Centrifuge the tube immediately after collection
- **Collect and transfer the plasma** (liquid component separated from solid components of blood) **to another clean container**

**If you require assistance or are unsure of any result or error code please contact your Woodley Equipment Account Manager or Woodley Equipment Company Technical Support on 01204 669033 and press option 1**

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