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# Appendix 7: i-STAT System Specimen Requirements

## **CHEM8+** cartridge

Sample Type	Instructions
Capillary	DO NOT USE
Venous, Arterial	Use Dark Green Li-Heparin tube (no gel)* or balanced heparin blood gas syringe Invert 8-10 times in a figure-eight motion to mix before testing

Analytes reported	Test Timing
Ionized Calcium, Total CO <sub>2</sub>	Within 10 minutes after collection. Maintain anaerobic conditions until testing.
Sodium, Potassium, Chloride, Glucose, Urea, Creatinine	Within 30 minutes after collection.

## CG4+, CREA, EC8+, and G cartridges

Sample	Instructions
Capillary	Collect sample using a balanced heparin capillary tube
Venous, Arterial	Use Dark Green Li-Heparin tube (no gel) or balanced heparin blood gas syringe Invert 8-10 times in a figure-eight motion to mix before testing

Analytes reported	Test Timing
Lactate	Immediately after collection.  Any delay can falsely elevate results.
pH, pCO <sub>2</sub> , pO <sub>2</sub> , Total CO <sub>2</sub> , HCO <sub>3</sub> , Base Excess, sO <sub>2</sub>	Capillary: within 3 minutes after collection Venous/Arterial: Within 10 minutes after collection. Maintain anaerobic conditions until testing.
Sodium, Potassium, Chloride, Glucose, Urea, Creatinine	Capillary: Within 3 minutes after collection Venous/Arterial: Within 30 minutes after collection.

### PT/INR Cartridge

Sample Type	Instructions
Capillary	Direct skin puncture to cartridge application Use <u>first drop</u> of blood (do not wipe away)
Venous	Use non-additive tube (no additives, no anticoagulant, no gel) or plain plastic syringe Do <u>not</u> mix sample prior to testing

Test Timing	
Immediately after collection.  Any delay can cause sample to clot before testing.	

## **Troponin I cartridge**

Sample Type	Instructions
Capillary	DO NOT USE
Venous, Arterial	Use Dark Green Li-Heparin tube (no gel)* or balanced heparin blood gas syringe Invert 8-10 times in a figure-eight motion to mix before testing

Analytes reported	Test Timing
Troponin I	Within 30 minutes after collection.

<sup>\*</sup>Light Green Li-Heparin tubes with gel may be used for CHEM8+ and cTnl cartridges, only if necessary