

Document #: 100-10-02

Version #: 05

Appendix 9A: 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 ₂	Within 10 minutes after collection. Maintain anaerobic conditions until testing.
Sodium, Potassium, Chloride, Glucose, Urea, Creatinine, Hematocrit, Hemoglobin	Within 30 minutes after collection.

CG4+, CREA, EC8+, and G cartridges

Sample	Instructions	
Sample	matructions	
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 ₂ , pO ₂ , Total CO ₂ , HCO ₃ , Base Excess, sO ₂	Capillary: within 3 minutes after collection Venous/Arterial: Within 10 minutes after collection. Maintain anaerobic conditions until testing.
Sodium, Potassium, Chloride, Glucose, Urea, Creatinine, Hematocrit, Hemoglobin	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.

^{*}Light Green Li-Heparin tubes with gel may be used for CHEM8+ and cTnl cartridges, only if necessary