BMC, CRH, LFH, OCH, FTT, FOX

Specimen Type

Whole Blood: Venous, Mixed Venous

Specimen Tubes for Blood Gases

Specimen Tubes for Blood Gases (ABG/VBG), O₂ Sat, OxyHb, CarboxyHb, MetHb



Preferred Container

Lithium Heparin coated syringe Lithium Heparin Tube Expel all air bubbles from syringe immediately after collection.

Alternative Container

Mint Green top tube (prefer Lithium Green top tube with no gel 4.0mL draw Lithium Heparin only when submitted to the Clinical Lab for Blood Gas, with lactate and/or basic metabolic panel unspun.

Minimum Volume to Submit for Testing

2 mL whole blood

Transportation Needs

Deliver ASAP within 15 minutes.

Do not send green top tubes or syringes through pneumatic tube system.

Do not centrifuge.

Stable 30 minutes at room temperature.

Do Not Send on Ice

Causes for Rejection

Mislabeled or unlabeled specimen

Less than 95% draw for vacutainer tubes

Specimen not received within 30 min of collection at room temp

Specimen delivered on ICE

Specimen contaminated with room air (bubbles in syringe or uncapped)

Clotted or Centrifuged

Pneumatic tube transport of green top tubes or syringes

All other tubes or anticoagulant other than lithium heparin whole blood

No Add-ons

Reference Values

Analyte	Units	Population	Venous
pН	(none)	All	7.350-7.450
pCO2	mmHg	All	40-50
pO2	mmHg	All	29-49
HCO3	mmol/L	All	22-29
TCO2	mmol/L	All	22-34
O2 Saturation	%	All	60-85
Base Excess	mmol/L	All	(-2)-(+3)

Critical Values					
Analyte	Units	Population	Venous Low	Venous High	
pН	(none)	All	<7.25	>7.60	
pCO2	mmHg	All	< 23	> 60	

Available STAT

Yes

Methodology

Ion specific electrodes and spectrophotometry

CPT Code

82803