

LAB718 Oxyhemoglobin, Arterial (NovaBio)

BMC, CRH, LFH, OCH, FTT, FOX

Performing Location(s)

BMC, CRH, LFH, OCH, FTT, FOX

Specimen Type

Arterial Whole Blood

Preferred Container

Heparin coated syringe.

Expel all air bubbles from syringe immediately after collection.

Alternate Container

Lithium Heparin Tube

Specimen Tubes for Blood Gases

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



LITHIUM HEPARIN
(LIGHT GREEN OR MINT TOP)



DO NOT SEND SPECIMENS VIA
TUBE SYSTEM- SPECIMENS
WILL BE REJECTED



SODIUM HEPARIN
(DARK GREEN TOP)



Volume Required

2 mL

Transportation Needs

Deliver ASAP within 15 minutes.

Do not send green top tubes through pneumatic tube system.

Do not send on ice

Storage Requirements

Do not centrifuge.

Stable 30 minutes at room temperature.

Causes for Rejection

Mislabeled or unlabeled specimen

Less than 95% draw for vacutainer tubes

Specimen not received within 30 min of collection at room temperature

Specimen delivered on ice

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

Clotted or Centrifuged

Pneumatic tube transport of green top tubes

All other tubes or anticoagulant other than lithium heparin whole blood

No Add-ons

Reference Values

Analyte	Units	Reference Range
Oxyhemoglobin	%	95 - 98
Oxygen Content	ml/dl	15 - 23

Includes

Spectrophotometrically measured Oxyhemoglobin (O2Hb) expressed as a fraction of the total hemoglobin.

O2content is included.

Calculation

$$\%O_2Hb = ([O_2Hb]) / ([O_2Hb] + [HHb] + [MetHb] + [COHb])$$

Methodology

See testing site dependent information.

Multiple wavelength measurement of optical density to determine the concentration of [O2Hb] (oxyhemoglobin), [HHb] (deoxyhemoglobin), [MetHb] (methemoglobin) and [COHb] (carboxyhemoglobin).

CPT Code

82810