

## **LAB91 Methemoglobin (NovaBio)**

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BMC, CRH, LFH, OCH, FTT, FOX

### **Performing Location(s)**

BMC, CRH, LFH, OCH, FTT, FOX

### **Specimen Type**

Whole Blood

### **Preferred Container**

Heparin coated syringe

### **Alternate Container**

Lithium Heparin Green top tube

### **Minimum Volume to Submit for Testing**

2 mL whole blood

### **Transportation Needs**

Deliver ASAP within 15 minutes

**Do not** send green top tubes through pneumatic tube system.

**Do not** centrifuge.

Stable 24 hours at room temp.

### **Storage Requirements**

Immediately after sampling using a syringe, the air must be evacuated and the syringe must be sealed.

Deliver to lab immediately after sampling.

### **Causes for Rejection**

Mislabeled or unlabeled specimen

Specimen not received within 30 minutes of collection

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**

| <b>Population</b> | <b>Units</b> | <b>Reference Range</b> |
|-------------------|--------------|------------------------|
| All Populations   | %            | ≤3.0                   |
| Cyanosis          | %            | 10-25                  |
| Headache          | %            | 35-40                  |
| Lethargy & Stupor | %            | >60                    |

|       |   |     |
|-------|---|-----|
| Fatal | % | >70 |
|-------|---|-----|

#### **Available STAT**

Yes

#### **Methodology**

Multiple wavelength measurement of optical density to determine the concentration of [O2Hb] (oxyhemoglobin), [HHb] (deoxyhemoglobin), [MetHb] (methemoglobin) and [COHb] (carboxyhemoglobin). The calculation then used to calculate the %MetHb is: %MetHb= [MetHb]/([O2Hb] + [HHb] + [MetHb] + [COHb])

#### **CPT Code**

83050