Lab Dept: Chemistry

Test Name: HEMOGLOBIN, PLASMA

**General Information** 

Lab Order Codes: PHG

**Synonyms:** Plasma Hgb

**CPT Codes:** 83051 – Hemoglobin, plasma

**Test Includes:** Plasma hemoglobin concentration measured in mg/dL.

Logistics

**Test Indications:** An increase in intravascular hemoglobin concentration is indicative of acute

destruction of erythocytes (hemolysis) within the vascular system. Excessive amounts of free hemoglobin may lead to renal impairment.

**Lab Testing Sections:** Chemistry (all specimens analyzed on the Mpls Campus)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 4 hours, Stat: 1 hour (7 AM – 10 PM)

**Special Instructions:** N/A

Specimen

Specimen Type: Blood

Container: Green top (Li Heparin) tube

**Draw Volume:** 0.6 mL blood

**Processed Volume:** 0.2 mL plasma

**Collection:** Routine venipuncture, atraumatic

Note: Hemolysis due to extravascular red cell trauma invalidates the result.

**Special Processing:** Lab Staff: Centrifuge specimen, remove plasma/serum aliquot into plastic

sample cup. Ultracentrifuge all specimens prior to analysis to prevent

interference from lipids. Analyze sample immediately or store at refrigerated

temperatures.

Patient Preparation: None

Sample Rejection: Unlabeled or mislabeled specimen; traumatic collection

## Interpretive

**Reference Range:** <30 mg/dL

## **ECMO Patients ONLY:**

Normal	<30 mg/dL
Mildly elevated	30 -50 mg/dL
Moderately elevated	51 – 70 mg/dL
Critical value	>70 mg/dL

Critical Values: N/A

**Limitations:** Hemolysis due to extravascular red cell trauma invalidates the result.

**Methodology:** Photometric/Hemocue

**References:** Blackney GB, Dinwoodie AJ (1975) Clinical Biochem, vol 8, pp 96-103

Mietes, Samuel (1977) Pediatric Clinical Chemistry, pp 126-127

Hennepin County Medical Center Laboratory (1998) Hemoglobin in Serum

Hemocue Plasma/Low Hb Photometer Operating Manual

**Updates:** 2/19/2016: Update alt tube type

7/8/2016: Plasma only