
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 erythrocytes (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