Lab Dept: Hematology

Test Name: G6PD

**General Information** 

**Lab Order Codes:** G6P

**Synonyms:** Glucose-6-Phosphate Dehydrogenase Quantitative, Erythrocytes; G-6-

PD Erythrocytes; G-6-PD

**CPT Codes:** 82955 - Glucose-6-Phosphate Dehydrogenase; quantitative

**Test Includes:** Glucose-6-Phosphate Dehydrogenase level reported in U/g

hemoglobin.

Logistics

Test Indications: Useful for evaluation of individuals with Coombs-negative non-

spherocytic hemolytic anemia.

Rapid testing to assess glucose-6-phosphate dehydrogenase (G6PD)

enzyme capacity prior to Rasburicase therapy.

**Lab Testing Sections:** Hematology - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test G6PD)

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 – 4 days, test is set up Monday - Saturday

**Special Instructions:** N/A

Specimen

Specimen Type: Whole blood

Container: Lavender (EDTA) top tube

Alternate: Yellow top tube (ACD- solution B)

**Draw Volume:** 6 mL (Minimum: 1 mL) blood

Processed Volume: Same as Draw Volume

**Collection:** Routine venipuncture

Special Processing: Lab Staff: Do not centrifuge. Specimen should remain in its original

collection tube. Do not transfer to other containers. Store and ship at

refrigerated temperatures. Forward promptly.

Specimen cannot be frozen.

Patient Preparation: None

**Sample Rejection:** Specimen frozen at any time after collection; gross hemolysis;

mislabeled or unlabeled specimens

Interpretive

**Reference Range:** ≥12 months: 8.8 – 13.4 U/g Hb

(Reference values have not been established for patients who are <12

months of age).

Note: Abnormal values are usually 0-20% of normal mean. Intermediate

values can occur in some genetic variants and in female carriers.

**Limitations:** In African-Americans with G-6-PD A-variant, normal values may be

measured for several weeks following hemolysis. This is not the case

with other G-6-PD variants that predispose to hemolysis.

**Methodology:** Kinetic Spectrophotometry (KS)

**References:** Mayo Medical Laboratories March 2017

**Updates:** 8/25/2010: Updated units and reference range.

3/7/2017: Tube update.