
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.