MAYO CLINIC LABORATORIES

1-800-533-1710

G6PD1

Glucose 6-Phosphate Dehydrogenase Enzyme Activity, Blood

Patient ID	Patient Name		Birth Date	Gender	Age
SA00143686	VALIDATIONSOFT, TESTING		1952-02-02	F	69
Order Number	**Client Order Number**	**Ordering Physician**	**Report Notes**		
SA00143686	SA00143686	CLIENT,CLIENT			
Account Information		**Collected**			
C7028846 DLMP Rochester		29 Mar 2021 07:00			

G6PD Enzyme Activity, B

Result Name	Value	Unit	Reference Value	Performing Site
Low **G6PD Enzyme Activity, B**	**<0.5**	U/g Hb	8.0–11.9	1 MCR

Glucose-6-Phosphate Dehydrogenase (G6PD) activity is 5% of mean normal. This degree of decreased enzyme activity is typically sufficient for a diagnosis of G6PD deficiency in the correct clinical context.

G6PD enzyme activity less than 10% of mean normal (less than 1.0 U/g Hb) is considered severe deficiency and is typically associated with WHO class I or class II variants (WHO Working Group, 1989 PMID 2633878). WHO class II are more common and manifest as an asymptomatic baseline with acute episodic hemolysis triggered by stressor events such as medications, fava beans, or infections. Common class II variants include the Mediterranean subtype, although there are many others. WHO class I are relatively rare and associated with continuous chronic nonspherocytic hemolytic anemia. Both classes are associated with neonatal jaundice which can be severe. Although G6PD deficiency is an X-linked recessive disorder and most often seen in hemizygous males, some females are affected. In addition, elderly women heterozygotes can develop deficiency due to differential X-skewing with age (Au et al. 2004 PMID 15316963). If genotyping is desired, please order G6PDB (G6PD Full Gene Sequencing). Additional sample required.

Received: 30 Mar 2021 14:25 **Reported:** 30 Mar 2021 14:27

Laboratory Notes

1 This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905	William G. Morice M.D. Ph.D	24D0404292