

Patient ID SA00140407	Patient Name VALIDATIONTESTING, HBEL1	Birth Date 1988-08-08	Gender F	Age 32
Order Number SA00140407	Client Order Number SA00140407	Ordering Physician CLIENT,CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 18 Nov 2020 12:00		

Hb Electrophoresis Summary Interp

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MCR

Hb A2 is increased. In the correct clinical context, this is consistent with beta thalassemia trait. Correlation with CBC indices and other clinical information is required. See comment.

Comment: Most beta thalassemia mutations do not cause significant anemia. If there is significant anemia (greater than 2 g/dL below expected baseline), further evaluation may be indicated. If acquired causes are excluded, hemoglobin-based considerations for significant anemia include alpha gene

duplication, dominant beta thalassemia mutations/hyperunstable hemoglobins or electrophoretically silent hemoglobin variants. In some conditions Hb A2 can be increased in the absence of beta thalassemia such as with KLF1 mutations, hyperthyroidism and megaloblastic anemia. Molecular evaluation is available for further analysis. If desired, please call the Metabolic Hematology Laboratory (1-800-533-1710).

Reviewed By

JENNIFER MAIN

MCR

Received: 19 Nov 2020 11:05

Reported: 19 Nov 2020 11:21

Hb Electrophoresis Evaluation

Hb Electrophoresis Interpretation

1 MCR

See HBEL0/Hb Electrophoresis Summary Interpretation for correlation of these results with protein analysis and any provided clinical phenotype.

Methodologies utilized in this interpretation include: capillary electrophoresis, HPLC

Hb Variant, A2 and F Quantitation,B

Result Name	Value	Unit	Reference Value	Performing Site
 Hb A Low	88.0	%	95.8–98.0	MCR
 Hb F High	7.0	%	0.0–0.9	MCR
 Hb A2 High	5.0	%	2.0–3.3	1 MCR

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



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Result Name	Value	Unit	Reference Value	Performing Site
HPLC Hb Variant, B	See Interpretation			MCR

Received: 19 Nov 2020 11:05

Reported: 19 Nov 2020 11:20

Laboratory Notes

- 1 This test has been modified from the manufacturer's instructions. Its performance characteristics were 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.

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