

Patient ID SA00141477	Patient Name VALIDATIONTESTING, RBCME	Birth Date 1960-02-02	Gender M	Age 60
Order Number SA00141477	Client Order Number SA00141477	Ordering Physician CLIENT,CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 14 Jan 2021 09:00		

RBC Membrane Evaluation, B

Osmotic Fragility

Result Name	Value	Unit	Reference Value	Performing Site
 Osmotic Fragility, 0.50 g/dL NaCl High	75	%hemol	3–53	MCR
 Osmotic Fragility, 0.60 g/dL NaCl High	81	%hemol	14–74	MCR
 Osmotic Fragility, 0.65 g/dL NaCl High	62	%hemol	4–40	MCR
 Osmotic Fragility, 0.75 g/dL NaCl High	15	%hemol	1–11	1 MCR

Result Name	Value	Unit	Reference Value	Performing Site
Shipping Control Vial	Received			MCR

Spherocytosis Interpretation

Osmotic fragility testing: Increased red blood cell lysis EMA binding test (band 3 assay) by flow cytometry: Decreased

Interpretation: Osmotic Fragility and EMA binding (Band 3) results are supportive of a diagnosis of hereditary spherocytosis in the correct clinical context. However, it is important to note that similar OF and EMA binding results can also be seen in congenital dyserythropoietic anemia, type II. Furthermore, decreased fluorescence has been reported in other rare blood cell disorders such as hereditary pyropoikilocytosis, Southeast Asia ovalocytosis, and cryohydrocytosis. Therefore, correlation with the patient's clinical and family history and persistent peripheral blood smear findings is necessary for a definitive

MCR

diagnosis.

If genotyping is desired, a sequencing panel is available. If applicable, please order the Hereditary Hemolytic Anemia Comprehensive Sequencing (test code, NGHHA) and fill out the information sheet.

If splenectomy is under consideration, please see Iolascon A et al. 2017 PMID 28550188, for disorder-specific recommendations of indications and contraindications for splenectomy in hereditary hemolytic anemia.

Reviewed By

JENNIFER MAIN

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
 Abn Band 3 Fluorescence Staining, RBC	Decreased			1 MCR
REFERENCE VALUE Expected result is normal				

Peripheral Blood Smear Review

MCR

Review of blood smear reveals a subset of spherocytes.

Received: 14 Jan 2021 13:02

Reported: 14 Jan 2021 13:37

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.

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