

Patient ID SA00166983	Patient Name TESTING, PLSD_ABNORMAL	Birth Date 2002-02-02	Sex F	Age 22
Order Number SA00166983	Client Order Number SA00166983	Ordering Physician CLIENT,CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 06 Mar 2024 07:04		

Lysosomal/Peroxisomal D/O Scrn, BS

Acid Beta-Glucosidase

1.75 nmol/mL/h

MCR

Reference Value
≥1.75

Sphingomyelinase

2.5 nmol/mL/h

MCR

Reference Value
≥2.5

Acid Alpha-Glucosidase

3.0 nmol/mL/h

MCR

Reference Value
≥3.0

Galactocerebrosidase

0.4 nmol/mL/h

MCR

Reference Value
≥0.4

Alpha-Galactosidase

2.00 nmol/mL/h

MCR

Reference Value
≥2.00

Alpha-L-Iduronidase

1.5 nmol/mL/h

MCR

Reference Value
≥1.5

Iduronate 2-Sulfatase

 2.7 nmol/mL/h

MCR

Reference Value
≥4.0

Low

C20 Lysophosphatidylcholine

1.81 nmol/mL

MCR

Reference Value
≤1.81

C22 Lysophosphatidylcholine

0.43 nmol/mL

MCR

Reference Value
≤0.43

C24 Lysophosphatidylcholine

0.49 nmol/mL

MCR

Reference Value
≤0.49

C26 Lysophosphatidylcholine

0.47 nmol/mL

MCR

Reference Value
≤0.47

Reviewed By

Amy Breitlow

MCR

Interpretation (PLSD)

1 MCR

POSITIVE In this sample, the activity of iduronate-2-sulfatase is reduced indicating that this individual is a carrier for Mucopolysaccharidosis type II (MPS II). The other enzymes tested by this method were normal (acid beta-glucosidase, acid alpha-glucosidase, sphingomyelinase, galactocerebrosidase, and alpha-L-iduronidase) as well as the concentrations of C20 to C26 lysophosphatidylcholine species. For confirmation, consider ordering molecular genetic analysis of the IDS gene (MCL test MPS2Z). If not already ordered, this could be performed on the existing sample by calling MCL (1-800-533-1710) within one month. Please note that this enzyme's activity can also be reduced in Multiple Sulfatase Deficiency (MSD). If clinically indicated, consider biochemical genetic testing of other sulfatases (MCL test MSDW) or molecular genetic testing of the SUMF1 gene (MCL test CGPH, gene list ID: IEMCP-PCUBX1) to exclude MSD. Please contact the Biochemical Genetics consultant or genetic counselor on call (1-800-533-1710) if you have any questions.

ADDITIONAL INFORMATION

Flow Injection Analysis-Tandem Mass Spectrometry (FIA-MS/MS)

Received: 06 Mar 2024 07:09

Reported: 06 Mar 2024 07:16

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