

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: 12/31/2009
Sex: Unknown
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

Mucopolysaccharidoses Type 4A/6 Total Chondroitin Sulfate and Dermatan Sulfate with NRE (Sensi-Pro(R)) Quantitative, Urine

ARUP test code 3003539

MPS 4A/6 Creatinine, Urine 11 mg/dL

MPS 4A/6 Urine Interpretation See Note

In this sample the concentration of a4, non-reducing end (NRE) specific for N-acetylgalactosamine-4-sulfatase/arylsulfatase B deficiency, was increased with elevated concentration of chondroitin/dermatan sulfate and elevated a4/a6 ratio. This pattern is most consistent with Mucopolysaccharidosis type VI (Maroteaux-Lamy syndrome), however would evaluate enzyme activity together with that of other sulfatases to confirm this finding and exclude multiple sulfatase deficiency. would also consider molecular testing. Clinical correlation is necessary for further interpretation of this result.

INTERPRETIVE INFORMATION: MPS 4A/6, Urine

Total Chondroitin Sulfate (CS) and Dermatan Sulfate (DS), Urine is a sum of the internal disaccharides D0a0, D0a4, and D0a6. NRE = Non Reducing End

This test was developed, and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

Chondroitin and Dermatan Sulfate, Urine	9.685 mg/mmol CRT	H (Ref Interval: 0.465-4.270)
a4 (MPS 6 NRE), Urine	0.145 mg/mmol CRT	H (Ref Interval: <=0.032)
a6 (MPS 4A NRE), Urine	0.034 mg/mmol	(Ref Interval: <=0.162)
a4/a6 Ratio, Urine	4.265 mg/mmol CRT	H (Ref Interval: <=1.000)

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
MPS 4A/6 Creatinine, Urine	21-034-104094	2/3/2021 9:20:00 AM	2/8/2021 4:35:34 PM	2/11/2021 7:14:00 AM
MPS 4A/6 Urine Interpretation	21-034-104094	2/3/2021 9:20:00 AM	2/8/2021 4:35:34 PM	2/11/2021 7:14:00 AM

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

Chondroitin and Dermatan Sulfate, Urine	21-034-104094	2/3/2021 9:20:00 AM	2/8/2021 4:35:34 PM	2/11/2021 7:14:00 AM
a4 (MPS 6 NRE), Urine	21-034-104094	2/3/2021 9:20:00 AM	2/8/2021 4:35:34 PM	2/11/2021 7:14:00 AM
a6 (MPS 4A NRE), Urine	21-034-104094	2/3/2021 9:20:00 AM	2/8/2021 4:35:34 PM	2/11/2021 7:14:00 AM
a4/a6 Ratio, Urine	21-034-104094	2/3/2021 9:20:00 AM	2/8/2021 4:35:34 PM	2/11/2021 7:14:00 AM

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 21-034-104094
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Page 2 of 2 | Printed: 7/20/2022 8:25:56 AM