

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 12/31/2009  
**Gender:** Unknown  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

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

ARUP test code 3003487

MPS 4A/6, Serum 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. This pattern is most consistent with Mucopolysaccharidosis type VI (Maroteaux-Lamy syndrome). Would evaluate enzyme activity together with that of other sulfatases to confirm this finding and exclude multiple sulfatase deficiency. Would also consider molecular testing. Genetic evaluation is recommended. Clinical correlation is necessary for further interpretation of this result.

INTERPRETIVE INFORMATION: MPS 4A/6, Serum Interpretation

Total Chondroitin Sulfate (CS) and Dermatan Sulfate (DS), Serum 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, Serum	<b>32131 ng/mL</b>	<b>H</b>	(Ref Interval: 10300-23500)
a4 (MPS 6 NRE), Serum	<b>122 ng/mL</b>	<b>H</b>	(Ref Interval: 21-62)
a6 (MPS 4A NRE), Serum	11 ng/mL		(Ref Interval: <=20)
a4/a6 Ratio, Serum	11.091		

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

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
MPS 4A/6, Serum Interpretation	21-034-103972	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Chondroitin and Dermatan Sulfate, Serum	21-034-103972	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
a4 (MPS 6 NRE), Serum	21-034-103972	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
a6 (MPS 4A NRE), Serum	21-034-103972	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
a4/a6 Ratio, Serum	21-034-103972	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

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  
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 21-034-103972  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
Page 2 of 2 | Printed: 2/11/2021 10:18:50 AM  
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