

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 4/27/1966
Gender: Male
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 00/00/0000 00:00

Motor Neuropathy Panel

ARUP test code 0051225

MAG Antibody, IgM Elisa	<1000 TU	(Ref Interval: 0-999)
	INTERPRETIVE INFORMATION: MAG Antibody, IgM ELISA	
	An elevated IgM antibody concentration greater than 999 TU against myelin-associated glycoprotein (MAG) suggests active demyelination in peripheral neuropathy. A normal concentration (less than 999 TU) generally rules out an anti-MAG antibody-associated peripheral neuropathy.	
	TU=Titer Units	
	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.	
SGPG Antibody, IgM	0.11 IV	(Ref Interval: 0.00-0.99)
	INTERPRETIVE INFORMATION: SGPG Antibody, IgM	
	The majority of sulfate-3-glucuronyl paragloboside (SGPG) IgM-positive sera will show reactivity against MAG. Patients who are SGPG IgM positive and MAG IgM negative may have multi-focal motor neuropathy with conduction block.	
	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.	
Asialo-GM1 Antibodies, IgG/IgM	13 IV	(Ref Interval: 0-50)
GM1 Antibodies, IgG/IgM	62 IV H	(Ref Interval: 0-50)
GD1a Antibodies, IgG/IgM	19 IV	(Ref Interval: 0-50)
GD1b Antibodies, IgG/IgM	16 IV	(Ref Interval: 0-50)

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

Unless otherwise indicated, testing performed at:

GQ1b Antibodies, IgG/IgM

9 IV (Ref Interval: 0-50)

INTERPRETIVE INFORMATION: Ganglioside (Asialo-GM1, GM1, GM2, GD1a, GD1b, and GQ1b) Antibodies, IgG/IgM

29 IV or less: Negative
30-50 IV: Equivocal
51-100 IV: Positive
101 IV or greater: Strong Positive

Ganglioside antibodies are associated with diverse peripheral neuropathies. Elevated antibody levels to ganglioside-monosialic acid (GM1), and the neutral glycolipid, asialo GM1 are associated with motor or sensorimotor neuropathies, particularly multifocal motor neuropathy. Anti-GM1 may occur as IgM (polyclonal or monoclonal) or IgG antibodies. These antibodies may also be found in patients with diverse connective tissue diseases as well as normal individuals. GD1a antibodies are associated with different variants of Guillain-Barre syndrome (GBS) particularly acute motor axonal neuropathy while GD1b antibodies are predominantly found in sensory ataxic neuropathy syndrome. Anti-GQ1b antibodies are seen in more than 80 percent of patients with Miller-Fisher syndrome and may be elevated in GBS patients with ophthalmoplegia. The role of isolated anti-GM2 antibodies is unknown. These tests by themselves are not diagnostic and should be used in conjunction with other clinical parameters to confirm disease.

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Immunoglobulin G **314 mg/dL** L (Ref Interval: 768-1632)

Immunoglobulin A **67 mg/dL** L (Ref Interval: 68-408)

Immunoglobulin M 75 mg/dL (Ref Interval: 35-263)

Total Protein, Serum **6.2 g/dL** L (Ref Interval: 6.3-8.2)

Albumin 4.25 g/dL (Ref Interval: 3.75-5.01)

Alpha 1 Globulin 0.31 g/dL (Ref Interval: 0.19-0.46)

Alpha 2 Globulin 0.71 g/dL (Ref Interval: 0.48-1.05)

Beta Globulin 0.55 g/dL (Ref Interval: 0.48-1.10)

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Gamma	0.38 g/dL	L	(Ref Interval: 0.62-1.51)
Monoclonal Protein	Not Applicable g/dL		
Immunofixation	IFE Done		
SPEP/IFE Interpretation	See Note Hypogammaglobulinemia. A Kappa/Lambda Quantitative Free Light Chain (0055167) on a serum sample may also be of diagnostic value. Restricted band of protein migration in the gamma region which is too small to quantify. IFE gel shows a faint band in IgG lambda which may be indicative of a specific immune response or an early monoclonal protein. Close clinical correlation with IFE follow-up is suggested, if clinically indicated.		
EER Motor Neuropathy Panel	See Note Authorized individuals can access the ARUP Enhanced Report using the following link: [REDACTED]		

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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
MAG Antibody, IgM Elisa	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
SGPG Antibody, IgM	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Asialo-GM1 Antibodies, IgG/IgM	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
GM1 Antibodies, IgG/IgM	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
GD1a Antibodies, IgG/IgM	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
GD1b Antibodies, IgG/IgM	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
GQ1b Antibodies, IgG/IgM	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Immunoglobulin G	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Immunoglobulin A	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Immunoglobulin M	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Total Protein, Serum	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Albumin	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha 1 Globulin	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Alpha 2 Globulin	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Beta Globulin	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Gamma	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Monoclonal Protein	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Immunofixation	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
SPEP/IFE Interpretation	24-040-144269	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
EER Motor Neuropathy Panel	24-040-144269	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
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 24-040-144269
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Page 4 of 4 | Printed: 2/21/2024 7:55:42 AM
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