

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 10/31/1959  
**Gender:** Female  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 01/01/2017 12:34

**Motor Neuropathy Panel**

ARUP test code 0051225

MAG Antibody, IgM Elisa	0 TU	(Ref Interval: 0-999)
<p>INTERPRETIVE INFORMATION: MAG Antibody, IgM ELISA</p> <p>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.</p> <p>TU=Titer Units</p> <p>Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement D: aruplab.com/CS</p>		
SGPG Antibody, IgM	0.42 IV	(Ref Interval: 0.00-0.99)
<p>INTERPRETIVE INFORMATION: SGPG Antibody, IgM</p> <p>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.</p> <p>Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement D: aruplab.com/CS</p>		
Asialo-GM1 Antibodies, IgG/IgM	7 IV	(Ref Interval: 0-50)
GM1 Antibodies, IgG/IgM	8 IV	(Ref Interval: 0-50)
GD1a Antibodies, IgG/IgM	9 IV	(Ref Interval: 0-50)
GD1b Antibodies, IgG/IgM	9 IV	(Ref Interval: 0-50)
GQ1b Antibodies, IgG/IgM	6 IV	(Ref Interval: 0-50)

**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: 20-106-123268  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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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	775 mg/dL	(Ref Interval: 768-1632)
	REFERENCE INTERVAL: Immunoglobulin G	
	Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).	

Immunoglobulin A	171 mg/dL	(Ref Interval: 68-408)
	REFERENCE INTERVAL: Immunoglobulin A	
	Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).	

Immunoglobulin M	72 mg/dL	(Ref Interval: 35-263)
	REFERENCE INTERVAL: Immunoglobulin M	
	Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).	

Total Protein, Serum	6.9 g/dL	(Ref Interval: 6.3-8.2)
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Albumin	4.30 g/dL	(Ref Interval: 3.75-5.01)
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Alpha 1 Globulin	0.33 g/dL	(Ref Interval: 0.19-0.46)
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Alpha 2 Globulin	0.69 g/dL	(Ref Interval: 0.48-1.05)
Beta Globulin	0.83 g/dL	(Ref Interval: 0.48-1.10)
Gamma	0.75 g/dL	(Ref Interval: 0.62-1.51)
Immunofixation	IFE Done	
SPEP/IFE Interpretation	<p>See Note</p> <p>Slight restriction of protein migration in the gamma region. IFE shows a faint band in lambda suggestive of a specific immune response or an early monoclonal protein. Close clinical correlation with IFE follow-up is suggested, if clinically indicated. A Bence-Jones protein on a 24-hour urine collection may also be of diagnostic value.</p>	
EER Motor Neuropathy Panel	<p>See Note</p> <p>Access ARUP Enhanced Report using the link below:</p> <p>-Direct access:</p>	

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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
MAG Antibody, IgM Elisa	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/18/2020 6:06:00 PM
SGPG Antibody, IgM	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/18/2020 6:06:00 PM
Asialo-GM1 Antibodies, IgG/IgM	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:09:00 PM
GM1 Antibodies, IgG/IgM	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:09:00 PM
GD1a Antibodies, IgG/IgM	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:09:00 PM
GD1b Antibodies, IgG/IgM	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:09:00 PM
GQ1b Antibodies, IgG/IgM	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:09:00 PM
Immunoglobulin G	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:50:00 AM
Immunoglobulin A	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:50:00 AM
Immunoglobulin M	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:50:00 AM
Total Protein, Serum	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/17/2020 3:00:00 PM
Albumin	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:49:00 AM
Alpha 1 Globulin	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:49:00 AM
Alpha 2 Globulin	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:49:00 AM
Beta Globulin	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:49:00 AM
Gamma	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:49:00 AM
Immunofixation	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/17/2020 3:00:00 PM
SPEP/IFE Interpretation	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:49:00 AM
EER Motor Neuropathy Panel	20-106-123268	4/15/2020 10:35:00 AM	4/17/2020 1:23:56 PM	4/19/2020 10:49:00 AM

END OF CHART

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