

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 8/31/1956
Gender: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

Motor and Sensory Neuropathy Evaluation with Immunofixation Electrophoresis and Reflex to Titer and Neuronal Immunoblot

ARUP test code 2007967

MAG Antibody, IgM Elisa 145 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
 Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement D: aruplab.com/CS

SGPG Antibody, IgM 0.08 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.
 Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement D: aruplab.com/CS

Purkinje Cell/Neuronal Nuclear IgG Scrn None Detected (Ref Interval: None Detected)
 ANNA-1, ANNA-2 or PCA-1 antibodies not detected, confirmatory testing for Hu (ANNA-1), Ri (ANNA-2) or Yo (PCA-1) IgG antibodies will not be performed.
 INTERPRETIVE INFORMATION: Purkinje Cell/Neuronal Nuclear IgG Scrn
 Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement D: aruplab.com/CS

Asialo-GM1 Antibodies, IgG/IgM 25 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: 20-017-121674
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
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GM1 Antibodies, IgG/IgM	45 IV	(Ref Interval: 0-50)
GD1a Antibodies, IgG/IgM	43 IV	(Ref Interval: 0-50)
GD1b Antibodies, IgG/IgM	47 IV	(Ref Interval: 0-50)
GQ1b Antibodies, IgG/IgM	8 IV	(Ref Interval: 0-50)
<p>INTERPRETIVE INFORMATION: Ganglioside (Asialo-GM1, GM1, GM2, GD1a, GD1b, and GQ1b) Antibodies, IgG/IgM</p> <p>29 IV or less: Negative 30-50 IV: Equivocal 51-100 IV: Positive 101 IV or greater: Strong Positive</p> <p>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.</p> <p>Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement D: aruplab.com/CS</p>		
EER Motor Sensory Neuropathy Comp	See Note	Access ARUP Enhanced Report using the link below: -Direct access:
Immunoglobulin G	940 mg/dL	(Ref Interval: 768-1632)
<p>REFERENCE INTERVAL: Immunoglobulin G</p> <p>Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).</p>		
Immunoglobulin A	278 mg/dL	(Ref Interval: 68-408)

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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	220 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	7.5 g/dL	(Ref Interval: 6.3-8.2)
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Albumin	4.64 g/dL	(Ref Interval: 3.75-5.01)
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Alpha 1 Globulin	0.26 g/dL	(Ref Interval: 0.19-0.46)
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Alpha 2 Globulin	0.75 g/dL	(Ref Interval: 0.48-1.05)
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Beta Globulin	0.83 g/dL	(Ref Interval: 0.48-1.10)
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Gamma	1.02 g/dL	(Ref Interval: 0.62-1.51)
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Immunofixation	IFE Done	
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SPEP/IFE Interpretation	See Note Normal SPEP pattern. IFE shows a normal pattern; no monoclonal proteins seen.	
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VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
MAG Antibody, IgM Elisa	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/21/2020 7:39:00 AM
SGPG Antibody, IgM	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/21/2020 5:22:00 PM
Purkinje Cell/Neuronal Nuclear IgG Scrn	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/19/2020 10:38:00 PM
Asialo-GM1 Antibodies, IgG/IgM	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/21/2020 8:48:00 AM
GM1 Antibodies, IgG/IgM	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/21/2020 8:48:00 AM
GD1a Antibodies, IgG/IgM	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/21/2020 8:48:00 AM
GD1b Antibodies, IgG/IgM	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/21/2020 8:48:00 AM
GQ1b Antibodies, IgG/IgM	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/21/2020 8:48:00 AM
EER Motor Sensory Neuropathy Comp	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:15:00 AM
Immunoglobulin G	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:13:00 AM
Immunoglobulin A	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:13:00 AM
Immunoglobulin M	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:13:00 AM
Total Protein, Serum	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/19/2020 3:34:00 AM
Albumin	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:15:00 AM
Alpha 1 Globulin	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:15:00 AM
Alpha 2 Globulin	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:15:00 AM
Beta Globulin	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:15:00 AM
Gamma	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:15:00 AM
Immunofixation	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/19/2020 3:34:00 AM
SPEP/IFE Interpretation	20-017-121674	1/17/2020 10:28:00 AM	1/18/2020 11:40:44 PM	1/22/2020 12:15:00 AM

END OF CHART

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