

**Overview**
**Method Name**

Semi-Quantitative Enzyme-Linked Immunosorbent Assay

Quantitative Nephelometry

Quantitative Capillary Electrophoresis

Qualitative Immunofixation Electrophoresis

Quantitative Spectrophotometry

**NY State Available**

Yes

**Specimen**
**Specimen Type**

Serum SST

**Specimen Required**
**Specimen Type:** Serum

**Container/Tube:** Serum Separator Tube (SST)

**Specimen Volume:** 4mL

**Collection Instructions:** Draw blood in a serum gel tube(s). Spin down and send 4 mL serum refrigerated in plastic vial.

**Specimen Minimum Volume**

2 mL

**Reject Due To**

Hemolysis	Mild reject; Gross reject
Lipemia	Mild OK; Gross reject
Icterus	Mild OK; Gross reject
Other	Plasma, CSF or other body fluids. Heat-inactivated, Contaminated

**Specimen Stability Information**

Specimen Type	Temperature	Time	Special Container
Serum SST	Refrigerated (preferred)	7 days	
	Frozen	30 days	

**Clinical and Interpretive****Reference Values**

Asialo-GM1 Antibodies, IgG/IgM

29 IV or less: Negative

30-50 IV: Equivocal

51-100 IV: Positive

101 IV or greater: Strong Positive

GM1 Antibodies, IgG/IgM

29 IV or less: Negative

30-50 IV: Equivocal

51-100 IV: Positive

101 IV or greater: Strong Positive

GD1a Antibodies, IgG/IgM

29 IV or less: Negative

30-50 IV: Equivocal

51-100 IV: Positive

101 IV or greater: Strong Positive

GD1b Antibodies, IgG/IgM

29 IV or less: Negative

30-50 IV: Equivocal

51-100 IV: Positive

101 IV or greater: Strong Positive

GQ1b Antibodies, IgG/IgM

29 IV or less: Negative

30-50 IV: Equivocal

51-100 IV: Positive

101 IV or greater: Strong Positive

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

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. Â

Total Protein, Serum

6.00-8.30 g/dL

Albumin

3.75-5.01 g/dL

Alpha-1 Globulins

0.19-0.46 g/dL

Alpha-2 Globulins

0.48-1.05 g/dL

Beta Globulins

0.48-1.10 g/dL

Gamma

0.62-1.51 g/dL

Immunoglobulin A

0 Ã¢â&#130;-â&#128;&#156; 30 days:	1 Ã¢â&#130;-â&#128;&#156; 7 mg/dL	9 Ã¢â&#130;-â&#128;&#156; 11 months:	16 Ã¢â&#130;-â&#128;&#156; 83 mg/dL
1 month:	1 Ã¢â&#130;-â&#128;&#156; 53 mg/dL	1 year:	14 Ã¢â&#130;-â&#128;&#156; 105 mg/dL

2 months:	3 Ã¢â&#130;-â&#128;&#156; 47 mg/dL	2 years:	14 Ã¢â&#130;-â&#128;&#156; 122 mg/dL
3 months:	5 Ã¢â&#130;-â&#128;&#156; 46 mg/dL	3 years:	22 Ã¢â&#130;-â&#128;&#156; 157 mg/dL
4 months:	4 Ã¢â&#130;-â&#128;&#156; 72 mg/dL	4 years:	25 Ã¢â&#130;-â&#128;&#156; 152 mg/dL
5 months:	8 Ã¢â&#130;-â&#128;&#156; 83 mg/dL	5 - 7 years:	33 Ã¢â&#130;-â&#128;&#156; 300 mg/dL
6 months:	8 Ã¢â&#130;-â&#128;&#156; 67 mg/dL	8 Ã¢â&#130;-â&#128;&#156; 9 years:	45 Ã¢â&#130;-â&#128;&#156; 234 mg/dL
7 Ã¢â&#130;-â&#128;&#156; 8 months:	11 Ã¢â&#130;-â&#128;&#156; 89 mg/dL	10 years and older:	68 Ã¢â&#130;-â&#128;&#156; 408 mg/dL

## Immunoglobulin G

Ã 0 Ã¢â&#130;-â&#128;&#156; 30 days:	611 Ã¢â&#130;-â&#128;&#156; 1542 mg/dL	9 Ã¢â&#130;-â&#128;&#156; 11 months:	282 Ã¢â&#130;-â&#128;&#156; 1026 mg/dL
1 month:	241 Ã¢â&#130;-â&#128;&#156; 870 mg/dL	1 year:	331 Ã¢â&#130;-â&#128;&#156; 1164 mg/dL
2 months:	198 Ã¢â&#130;-â&#128;&#156; 577 mg/dL	2 years:	407 Ã¢â&#130;-â&#128;&#156; 1009 mg/dL
3 months:	169 Ã¢â&#130;-â&#128;&#156; 558 mg/dL	3 years:	423 Ã¢â&#130;-â&#128;&#156; 1090 mg/dL
4 months:	188 Ã¢â&#130;-â&#128;&#156; 536 mg/dL	4 years:	444 Ã¢â&#130;-â&#128;&#156; 1187 mg/dL
5 months:	165 Ã¢â&#130;-â&#128;&#156; 781 mg/dL	5 Ã¢â&#130;-â&#128;&#156; 7 years:	608 Ã¢â&#130;-â&#128;&#156; 1229 mg/dL
6 months:	206 Ã¢â&#130;-â&#128;&#156; 676 mg/dL	8 Ã¢â&#130;-â&#128;&#156; 9 years:	584 Ã¢â&#130;-â&#128;&#156; 1509 mg/dL
7 Ã¢â&#130;-â&#128;&#156; 8 months:	208 Ã¢â&#130;-â&#128;&#156; 868 mg/dL	10 years and older:	768 Ã¢â&#130;-â&#128;&#156; 1632 mg/dL

## Immunoglobulin M

0 Ã¸â&#130;¬â&#128;â&#156; 30 days:	0 Ã¸â&#130;¬â&#128;â&#156; 24 mg/dL	9 Ã¸â&#130;¬â&#128;â&#156; 11 months:	39 Ã¸â&#130;¬â&#128;â&#156; 142 mg/dL
1 month:	19 Ã¸â&#130;¬â&#128;â&#156; 83 mg/dL	1 year:	41 Ã¸â&#130;¬â&#128;â&#156; 164 mg/dL
2 months:	16 Ã¸â&#130;¬â&#128;â&#156; 100 mg/dL	2 years:	46 Ã¸â&#130;¬â&#128;â&#156; 160 mg/dL
3 months:	23 Ã¸â&#130;¬â&#128;â&#156; 85 mg/dL	3 years:	45 Ã¸â&#130;¬â&#128;â&#156; 190 mg/dL
4 months:	26 Ã¸â&#130;¬â&#128;â&#156; 96 mg/dL	4 years:	41 Ã¸â&#130;¬â&#128;â&#156; 186 mg/dL
5 months:	31 Ã¸â&#130;¬â&#128;â&#156; 103 mg/dL	5 Ã¸â&#130;¬â&#128;â&#156; 7 years:	46 Ã¸â&#130;¬â&#128;â&#156; 197 mg/dL
6 months:	33 Ã¸â&#130;¬â&#128;â&#156; 97 mg/dL	8 Ã¸â&#130;¬â&#128;â&#156; 9 years:	49 Ã¸â&#130;¬â&#128;â&#156; 230 mg/dL
7 Ã¸â&#130;¬â&#128;â&#156; 8 months:	32 Ã¸â&#130;¬â&#128;â&#156; 120 mg/dL	10 years and older:	35 Ã¸â&#130;¬â&#128;â&#156; 263 mg/dL

**Myelin Associated Glycoprotein (MAG) Antibody, IgM**

Less than 1000 TU

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

**Sulfate-3 Glucuronyl Paragloboside (SGPG) Antibody, IgM**

Less than 1.00 IV

**Performance**
**PDF Report**

No

**Day(s) and Time(s) Test Performed**

Sunday through Saturday

**Analytic Time**

1-8 days

**Maximum Laboratory Time**

3 - 12 days

**Performing Laboratory Location**

ARUP Laboratories

**Fees and Codes**
**Fees**

- Authorized users can sign in to [Test Prices](#) for detailed fee information.
- Clients without access to Test Prices can contact [Customer Service](#) 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact [Customer Service](#).

**Test Classification**

This test was developed and its performance characteristics determined by ARUP Laboratories. The U.S. Food and Drug Administration has not approved or cleared this test; however, FDA clearance or approval is not currently required for clinical use. The results are not intended to be used as the sole means for clinical diagnosis or patient management decisions.

**CPT Code Information**

82784 x 3

83516 x 7

84160

84165

86334

**LOINC® Information**

Test ID	Test Order Name	Order LOINC Value
FMONP	Motor Neuropathy Panel	Not Provided

Result ID	Test Result Name	Result LOINC Value
Z4539	MAG Antibody, IgM	17314-6
Z4540	SGPG Antibody, IgM	31666-1
Z4541	Asialo-GM1 Antibodies, IgG-IgM	44737-5
Z4542	GM1 Antibodies, IgG-IgM	63244-8
Z4543	GD1a Antibodies, IgG-IgM	48656-3
Z4544	GD1b Antibodies, IgG-IgM	26870-6
Z4545	GQ1b Antibodies, IgG-IgM	31674-5

---

Result ID	Test Result Name	Result LOINC Value
Z4546	Immunoglobulin G	2465-3
Z4547	Immunoglobulin A	2458-8
Z4548	Immunoglobulin M	2472-9
Z4549	Total Protein, Serum	2885-2
Z4550	Albumin	1751-7
Z4551	Alpha 1 Globulin	2865-4
Z4552	Alpha 2 Globulin	2868-8
Z4553	Beta Globulin	2871-2
Z4554	Gamma	2874-6
Z4555	Immunofixation	25700-6
Z4556	SPEP-IFE Interpretation	49275-1
Z4557	EER Motor Neuropathy Panel	11526-1