

Overview**Method Name**

Semi-Quantitative Enzyme-Linked Immunosorbent Assay
Quantitative Immunturbidimetry
Quantitative Capillary Electrophoresis
Qualitative Immunofixation Electrophoresis
Quantitative Spectrophotometry
Colorimetric Assay

NY State Available

Yes

Specimen**Specimen Type**

Serum SST

Specimen Required**Specimen Type:** Serum**Container/Tube:** Serum Separator Tube (SST)**Specimen Volume:** 4 mL**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 specimens |

Specimen Stability Information

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

Clinical & 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.

Total Protein, Serum:

6.3-8.2 g/dL

Albumin:

3.75-5.01 g/dL

Alpha 1 Globulin:

0.19-0.46 g/dL

Alpha 2 Globulin:

0.48-1.05 g/dL

Beta Globulin:

0.48-1.10 g/dL

Gamma:

0.62-1.51 g/dL

Immunoglobulin A:

0 - 2 years: 2 - 126 mg/dL

3 - 4 years: 14 - 212 mg/dL

5 - 9 years: 52 - 226 mg/dL

10 - 14 years: 42 - 345 mg/dL

15 - 18 years: 60 - 349 mg/dL

19 years and older: 68 - 408 mg/dL

Immunoglobulin G:

0 - 2 years: 242 - 1108 mg/dL

3 - 4 years: 485 - 1160 mg/dL

5 - 9 years: 514 - 1672 mg/dL

10 - 14 years: 581 - 1652 mg/dL

15 - 18 years: 479 - 1433 mg/dL

19 years and older: 768 - 1632 mg/dL

Immunoglobulin M:

0 - 2 years: 21 - 215 mg/dL

3 - 4 years: 26 - 155 mg/dL

5 - 9 years: 26 - 188 mg/dL

10 - 14 years: 47 - 252 mg/dL

15 - 18 years: 26 - 232 mg/dL

19 years and older: 35-263 mg/dL

Monoclonal Protein:

Units: g/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

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.

Performance

PDF Report

No

Day(s) Performed

Sunday through Saturday

Report Available

3 to 12 days

Performing Laboratory Location

ARUP Laboratories

Fees & 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. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

CPT Code Information

82784 x 3

83516 x 7

84155

84165

86334

LOINC® Information

| Test ID | Test Order Name | Order LOINC® Value |
|---------|------------------------|--------------------|
| FMNPP | 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 |
| 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 |
| Z6250 | Monoclonal Protein | Not Provided |