



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003827 M 07/08/1978 45 Y

Referral Testing

Collected: 09/05/2023 09:47 Received: 09/05/2023 09:47

Table with 6 columns: Test Name, Result, Flag, Ref-Ranges, Units, Site. Row 1: Co-GM1 Quattro(TM) Autoantibody Test, Summary Interpretation, See Note, QCRL

NEGATIVE
This panel of tests did not identify any positive results.

Interpretive Results Table, See Note, QCRL

Interpretive Result Table

TEST: anti-GM1
METHODODOLOGY: ELISA
INTERPRETATION: Negative
TECHNICAL RESULT: <1:3,200
REFERENCE RANGE: Negative <=1:3200, Positive >1:3200

TEST: anti-asialo GM1
METHODODOLOGY: ELISA
INTERPRETATION: Negative
TECHNICAL RESULT: <1:6,400
REFERENCE RANGE: Negative <=1:6400, Positive >1:6400

TEST: anti-GD1b
METHODODOLOGY: ELISA
INTERPRETATION: Negative
TECHNICAL RESULT: <1:6,400
REFERENCE RANGE: Negative <=1:6400, Positive >1:6400

TEST: anti-GD1a
METHODODOLOGY: ELISA
INTERPRETATION: Negative
TECHNICAL RESULT: <1:100
REFERENCE RANGE: Negative <1:100, Positive >=1:100

Comments, See Note, QCRL

Comments: The likelihood that this individual's clinical symptoms are associated with these antibodies has been reduced. However, this test result does not rule out an autoimmune etiology for the neurological symptoms associated with peripheral neuropathy.

Recommendations:

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED



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<u>Test Name</u>	<u>Result</u>	<u>Flag</u>	<u>Ref-Ranges</u>	<u>Units</u>	<u>Site</u>
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Health care providers, please contact the Athena Diagnostics Client Services Department at 1-800-394-4493 if you wish to consult with a Laboratory Director regarding this test result.

Background information: The gangliosides GM1, GD1a, and GD1b are highly enriched at or near the nodes of Ranvier, a critical region for generation and propagation of nerve action potentials, and contribute to the stability of paranodal junctions and ion channel clusters. IgG autoantibodies to the gangliosides GM1 and GD1a, are associated with acute motor axonal neuropathy (AMAN), acute motor conduction block neuropathy (AMCBN) and acute motor-sensory axonal motor neuropathy (AMSAN). Anti-GD1a antibodies are frequently found in the sera of patients with AMAN. Anti- GM1, GD1a, and GD1b are found in Guillain-Barre syndromes (GBS).

Methods: Detection of antibodies was performed by Enzyme Linked Immunosorbent Assay (ELISA).

Limitations of analysis: Although rare, false positive or false negative results may occur. All results should be interpreted in the context of clinical findings, relevant history, and other laboratory data.

Background references:

1. Capasso, M, et al. (2003) Neurology 61: 617-22. (PMID: 12963751)
2. Ho, TW, et al. (1999) Ann Neurol 45: 168-73. (PMID: 9989618)
3. Lugaresi, A, et al. (1997) J Neurol Sci 147: 193-200. (PMID: 9106127)
4. Yuki, N, et al. (1993) Muscle Nerve 16: 642-7. (PMID: 8502262)
5. Yuki N, et al. (1999) J Neurol Sci 68:121-6. (PMID: 10526194)
6. Yuki, N, et al. (1990) Neurology 40: 1900-2. (PMID: 2247243)

This test was developed and its analytical performance characteristics have been determined by Athena Diagnostics. It has not been cleared or approved by the U.S. Food and Drug Administration. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

Laboratory oversight provided by Vivekananda Datta, M.D., Ph.D., CLIA license holder, Athena Diagnostics (CLIA# 22D0069726)

Testing performed at:

Athena Diagnostics 200 Forest Street Marlborough, MA 01752

Test Performed at:

Athena Diagnostics, Inc.  
200 Forest Street, 2nd Floor  
Marlborough, MA 01752 V Datta MD, PhD

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QCRL: QUEST DIAGNOSTICS REFERENCE LAB CAPISTRANO 33608 Ortega Highway San Juan Capistrano CA 92675 Performing Site:

**Reported Date:** 2023.09.05 9:47 COGM1

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LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

F305000020  
WX0000003827

Ordered By: KAJAL SITWALA, MD, PhD  
WX00000000002365

Printed D&T: 09/05/23 09:47

Kajal V. Sitwala, MD, PhD - Medical Director

Form: MM RL1

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