



LABORATORY REPORT

Example Client, XYZ123
1234 Warde Road
Ann Arbor MI 48108

EXAMPLE, REPORT W
WX0000003826 F 12/05/1988 34 Y

Referral Testing

Collected: 09/19/2023 10:31 Received: 09/19/2023 10:31

Test Name Result Flag Ref-Ranges Units Site

MaTa Antibody Test

Interpretation See Note QCRL

POSITIV
This test detected abnormal levels of anti-Ma1 and anti-Ma2 (also known as anti-Ma) antibodies.

Technical Results See Note QCRL

Interpretive Result Table

INTERPRETIVE RESULT: Positive
TEST: anti-Ma and anti-Ta
TECHNICAL RESULT: 1:1 (Specificity: anti-Ma)
REFERENCE RANGE: CSF <1:1

Comments See Note QCRL

Comments: Positive test results are associated with a diagnosis of an autoimmune etiology for the neurological symptoms associated with paraneoplastic disorder.

Recommendations: Health care providers, please contact the Athena Diagnostics Client Services Department at 1-800-394-4493 if you wish to speak with a clinical consultant regarding this test result.

Background information: Paraneoplastic neurological syndromes or disorders (PNS or PND) are rare immune-mediated disorders resulting from nervous system damage due to the remote effects of a tumor. PND of the central nervous system may occur in association with either onconeural antibodies directed against intracellular antigens, or antibodies targeted against neuronal surface antigens. These autoantibodies have been associated with various clinical presentations and malignancies. Anti-Ta recognizes an onconeural protein called Ma2, and anti-Ma recognizes Ma2 and another protein, Mal. Anti-Ta antibodies are usually found in young men who present with limbic encephalitis and a testicular germ cell tumor. In contrast, patients with anti-Ma antibodies can be of either sex, usually middle aged and suffer from a range of tumors and neurological presentations.

Methods See Note QCRL

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



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Detection of antibodies was performed by automated nanoliter scale immunoassay.

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.

<u>References</u>	<u>See Note</u>	<u>QCRL</u>
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1. Titulaer, MJ, et al. (2011) Eur J Neurol 18: 19-e3. (PMID: 20880069)
2. Zuliani, L, et al. (2012) J Neurol Neurosurg Psychiatry 83: 638-45. (PMID: 22448032)

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

Performing Site:

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

**Reported Date:** 2023.09.19 10:32 MATA

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