

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 2/19/1948  
**Gender:** Female  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 01/01/2017 12:34

**Autoimmune Encephalitis Reflexive Panel, Serum**

ARUP test code 2013601

N-methyl-D-Aspartate Receptor Ab, Serum <1:10 (Ref Interval: <1:10)

Antibodies to NMDA were not detected, no additional testing to follow.

INTERPRETIVE INFORMATION: N-methyl-D-Aspartate Receptor Ab, Serum  
Anti-NMDA receptor IgG antibody is found in a subset of patients with autoimmune limbic encephalitis and may occur with or without associated tumor. Decreasing antibody levels may be associated with therapeutic response; therefore, clinical correlation must be strongly considered. A negative test result does not rule out a diagnosis of autoimmune limbic encephalitis.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement B: aruplab.com/CS

Aquaporin-4 Receptor Antibody <1.5 U/mL (Ref Interval: <=2.9)

AQP4 antibodies not detected by ELISA. No further testing to follow.

INTERPRETIVE INFORMATION: Aquaporin-4 Receptor Antibody

Negative ..... 2.9 U/mL or less  
Positive ..... 3.0 U/mL or greater

Approximately 75 percent of patients with neuromyelitis optica (NMO) express antibodies to the aquaporin-4 (AQP4) receptor. Diagnosis of NMO requires the presence of longitudinally extensive acute myelitis (lesions extending over 3 or more vertebral segments) and optic neuritis. While absence of antibodies to the AQP4 receptor does not rule out the diagnosis of NMO, presence of this antibody is diagnostic for NMO.

Voltage-Gated Potassium Channel Ab, Ser 0 pmol/L (Ref Interval: 0-31)

Voltage-Gated Potassium Channel Antibody is less than 31 pmol/L; therefore, no further testing added.

**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: 20-128-402415  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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4848

**INTERPRETIVE INFORMATION: Voltage-Gated Potassium Channel (VGKC) Antibody, Serum**

Negative ..... 31 pmol/L or less  
Indeterminate... 32 - 87 pmol/L  
Positive ..... 88 pmol/L or greater

Voltage-Gated Potassium Channel (VGKC) antibodies are associated with neuromuscular weakness as found in neuromyotonia (also known as Issacs syndrome) and Morvan syndrome. VGKC antibodies are also associated with paraneoplastic neurological syndromes and limbic encephalitis; however, VGKC antibody-associated limbic encephalitis may be associated with antibodies to leucine-rich, glioma-inactivated 1 protein (LGI1) or contactin-associated protein-2 (CASPR2) instead of potassium channel antigens. A substantial number of VGKC-antibody positive cases are negative for LGI1 and CASPR2 IgG autoantibodies, not all VGKC complex antigens are known. The clinical significance of this test can only be determined in conjunction with the patient's clinical history and related laboratory testing.

Test developed and characteristics determined by ARUP Laboratories. See Compliance Statement D: aruplab.com/CS

**Glutamic Acid Decarboxylase Antibody**

<5.0 IU/mL (Ref Interval: 0.0-5.0)

**INTERPRETIVE INFORMATION: Glutamic Acid Decarboxylase Antibody**

A value greater than 5.0 IU/mL is considered positive for Glutamic Acid Decarboxylase Antibody (GAD Ab). This assay is intended for the semi-quantitative determination of the GAD Ab in human serum. Results should be interpreted within the context of clinical symptoms.

**VERIFIED/REPORTED DATES**

Procedure	Accession	Collected	Received	Verified/Reported
N-methyl-D-Aspartate Receptor Ab, Serum	20-128-402415	5/7/2020 6:09:00 AM	5/9/2020 1:11:19 AM	5/9/2020 8:48:00 PM
Aquaporin-4 Receptor Antibody	20-128-402415	5/7/2020 6:09:00 AM	5/9/2020 1:11:19 AM	5/12/2020 3:03:00 PM
Voltage-Gated Potassium Channel Ab, Ser	20-128-402415	5/7/2020 6:09:00 AM	5/9/2020 1:11:19 AM	5/13/2020 5:57:00 PM
Glutamic Acid Decarboxylase Antibody	20-128-402415	5/7/2020 6:09:00 AM	5/9/2020 1:11:19 AM	5/11/2020 6:09:00 AM

**END OF CHART**

**H=High, L=Low, \*=Abnormal, C=Critical**

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