
Lab Dept: Serology

Test Name: MUSK AUTOANTIBODY

General Information

Lab Order Codes: MUSK

Synonyms: N/A

CPT Codes: 83519 – Immunoassay, Quantitative

Test Includes: Musk autoantibody reported in nmol/L

Logistics

Test indications: Diagnosis of autoimmune muscle-specific kinase (MuSK) myasthenia gravis. Second order test to aid in the diagnosis of autoimmune myasthenia gravis when first-line serologic tests are negative. Establishing a quantitative baseline value for MuSK antibodies that allows comparison with future levels if weakness is worsening.

Lab Testing Sections: Serology - Sendouts

Referred to: Mayo Clinic Laboratory (Mayo Test: MUSK)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 3 – 10 days, performed Monday - Friday

Special Instructions: N/A

Specimen

Specimen Type: Blood

Container: SST, Marble or red top tube

Draw Volume: 4.5 mL (Minimum: 3 mL) blood

Processed Volume: 1.5 mL (Minimum: 1 mL) serum

Collection:	Routine venipuncture
Special Processing:	Lab Staff: Centrifuge specimen, removed aliquot to a screw-capped plastic vial. Store and ship refrigerated.
Patient Preparation:	N/A
Sample Rejection:	Gross hemolysis, gross lipemia, gross icterus, mislabeled or unlabeled specimens.

Interpretive

Reference Range:	All ages: < or =0.02 nmol/L Interpretation: A positive result, in the appropriate clinical context, confirms the diagnosis of autoimmune muscle-specific kinase myasthenia gravis. Seropositivity justifies consideration of immunotherapy.
Critical Values:	N/A
Limitations:	Immunosuppressant therapy is a common cause of false-seronegativity. It is, therefore, important to perform a comprehensive serological evaluation before initiating immunosuppressant therapy. Interpretation of a patient's serological and clinical status is further complicated when characteristic signs of myasthenia gravis are obscured by a superimposed steroid-induced myopathy.
Methodology:	Radioimmunoassay (RIA)
References:	Mayo Clinic Laboratory (May 2021)