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**Lab Dept:** Serology

**Test Name:** TRICHINELLA ANTIBODY, IGG, SERUM

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***General Information***

**Lab Order Codes:** TRAB

**Synonyms:** Trichinella antibody, IgG, Serum; Trichinella serology; Trichinellosis

**CPT Codes:** 86784 – Antibody; trichinella

**Test Includes:** Trichinella IgG antibody reported as positive, borderline or negative

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***Logistics***

**Test Indications:** Useful as an adjunct in the diagnosis of trichinosis caused by the nematode parasite, *Trichinella spiralis*.

Diarrhea is the most common symptom associated with intestinal infection with adult worms. Subsequently, during systemic invasion by the larvae, fever, periorbital swelling, muscle pain and swelling, pulmonary symptoms and rash development are other possible symptoms.

**Lab Testing Sections:** Serology - Sendouts

**Referred to:** Mayo Medical Laboratories (MML Test: TRCNG)

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 – 7 days, performed Tuesday and Thursday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** SST (Gold, marble or red)

**Draw Volume:** 1.5 mL (Minimum: 1.4 mL) blood

<b>Processed Volume:</b>	0.5 mL (Minimum: 0.4 mL) serum
<b>Collection:</b>	Routine venipuncture
<b>Special Processing:</b>	Lab Staff: Centrifuge specimen, aliquot serum into a screw-capped round bottom plastic vial. Store and ship at frozen temperatures. Forward promptly.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Specimens other than serum; warm/thawed specimens; mislabeled or unlabeled specimens; gross hemolysis or gross lipemia.

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### ***Interpretive***

<b>Reference Range:</b>	Negative  Interpretation Positive: Results are suggestive of current or past infection with <i>Trichinella spiralis</i> . Results should be used in conjunction with clinical, epidemiologic and other laboratory tests to diagnose current infection.  Borderline: Recommend follow-up testing in 10 to 14 days if clinically indicated.  Negative: No antibodies to <i>Trichinella spiralis</i> detected. Repeat testing in 2 to 3 weeks if clinically indicated.
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	Antibodies to <i>Trichinella spiralis</i> may not be detectable until three weeks after the onset of infection. Therefore, negative results in suspicious cases should be followed by repeat testing in several weeks.  Sensitivity of the test may also be affected by the level of invasive disease, with patients who have lower parasitic loads having a greater risk of being negative by the assay.  Cross reactions with antibodies against <i>Toxocara canis</i> are possible.
<b>Methodology:</b>	Enzyme-Linked Immunosorbent Assay (ELISA)
<b>References:</b>	<a href="#">Mayo Medical Laboratories</a> January 2023