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**Lab Dept:** Serology

**Test Name:** STRONGYLOIDES ANTIBODY, IGG

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***General Information***

**Lab Order Codes:** STRNG

**Synonyms:** N/A

**CPT Codes:** 86682 – Antibody, helminth, not elsewhere specified

**Test Includes:** Strongyloides IgG antibody reported as Negative, Equivocal or Positive.

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***Logistics***

**Test Indications:** To aid in the diagnosis and confirmation of patients for whom a clinical suspicion of Strongyloides infection exists. Results for this test should not be used without correlation to clinical history or other data.

Strongyloidiasis is caused by the intestinal nematode, Strongyloides, as it migrates from the skin to the intestines. These nematodes may exist as free-living larvae in warm, moist tropical climates, or as non-infective larvae that pass in the stool of infected individuals and become infective while in the soil of temperate environments.

Strongyloides larvae enter the body by penetrating the skin and are carried through blood vessels to the lungs. The larvae travel from the lungs to the trachea and the pharynx, where they are swallowed and enter the intestines via the duodenum and upper jejunum.

**Lab Testing Sections:** Serology - Sendouts

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

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 3 – 10 days

**Special Instructions:** N/A

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***Specimen***

<b>Specimen Type:</b>	Blood
<b>Container:</b>	Red top tube
<b>Draw Volume:</b>	1.5 mL (Minimum: 1.2 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. Remove serum and aliquot into a plastic screw-capped tube. Store and ship at refrigerated temperatures. Forward promptly.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Warm specimens; mild or gross lipemia; mild or gross icterus; bacterially contaminated; heat-inactivated; mislabeled or unlabeled specimen

### ***Interpretive***

<b>Reference Range:</b>	All ages:	Negative
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**Critical Values:** N/A

**Limitations:**

- False positive results may occur with other heminth infections, including prior exposure to *Entamoeba histolytica*, *Ascaris*, *Taenia solium*, *Fasciola* spp, *Echinococcus* spp, *Shistosoma* spp, and *Toxocara* (per assay manufacturer).
- This assay should not be used alone to establish a diagnosis of strongyloidiasis. Results should be correlated with other laboratory findings and through clinical evaluation.
- False negative results may occur during acute or localized infection. A single negative result should not be used to rule out infection.
- This assay should not be used to monitor response to therapy.
- The seroprevalence of IgG-class antibodies to *Strongyloides stercoralis* ranges from 0 to 6.1% in the United States.

**Methodology:** Enzyme-Linked Immunosorbent Assay (ELISA)

**References:** [Mayo Medical Laboratories](#) October 2015

**Updates:** 10/28/2015: Testing no longer forwarded to ARUP. Testing now performed onsite at MML. No longer reported with IV units, specimen requirements updated.