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**Lab Dept:** Serology

**Test Name:** E. HISTOLYTICA ANTIBODY

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***General Information***

**Lab Order Codes:** EHAB

**Synonyms:** E. Histolytica Antibody, Serum; Entamoeba; Amebic Serology; Amebiasis

**CPT Codes:** 86753 – Antibody; protozoa, not elsewhere specified

**Test Includes:** Testing for E. Histolytica Antibody reported as positive or negative.

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***Logistics***

**Test Indications:** As an adjunct in the diagnosis of extraintestinal amebiasis, especially liver abscess.

Serology may be particularly useful in supporting the diagnosis of amebic liver abscess in patients without a definite history of intestinal amebiasis and who have not spent substantial periods of time in endemic areas.

**Lab Testing Sections:** Serology - Sendouts

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

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 - 7 days; test set up 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: 0.6 mL) blood

<b>Processed Volume:</b>	0.5 mL (Minimum: 0.2 mL) serum
<b>Collection:</b>	Routine blood collection
<b>Special Processing:</b>	Lab Staff: Centrifuge specimen, remove serum aliquot and freeze in a screw-capped, round bottom plastic vial. Ship frozen. Forward promptly.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Specimens other than serum; specimens received at ambient temperatures; mislabeled or unlabeled specimens; gross hemolysis; gross lipemia

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### ***Interpretive***

<b>Reference Range:</b>	Negative  A positive enzyme-linked immunosorbent (ELISA) suggests current or previous infection with <i>Entamoeba histolytica</i> .  Since pathogenic and nonpathogenic species of entamoeba cannot be differentiated microscopically, some authorities believe a positive serology indicates the presence of the pathogenic species (ie, <i>E. histolytica</i> )
<b>Critical Values:</b>	N/A
<b>Limitations:</b>	Previous episodes of intestinal amebiasis may produce a positive serology.  Serologic results should be used as an aid in diagnosis and should not be interpreted as diagnostic by themselves.  Direct detection of <i>Entamoeba histolytica</i> in stool specimens is recommended to diagnose intestinal amebiasis.
<b>Methodology:</b>	Enzyme-Linked Immunoabsorbent Assay (ELISA)
<b>References:</b>	<a href="#">Mayo Medical Laboratories Web Page</a> January 2018
<b>Updates:</b>	4/1/2010: MML will no longer perform titers on positive samples due to a change in kit design. 7/15/2010: Storage temp moved from frozen to refrigerated. 7/25/2013: Storage temp moved from refrigerated to frozen. 1/17/2018: Collection container update.