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**Lab Dept:** Serology

**Test Name:** MITOCHONDRIAL ANTIBODIES

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***General Information***

**Lab Order Codes:** MIT

**Synonyms:** Mitochondrial Antibodies (M2), Serum; Antimitochondrial antibodies; AMA; Immunology Profile

**CPT Codes:** 83516 – Immunoassay for analyte other than infectious agent antibody or infectious agent antigen, qualitative or semiquantitative; multiple step method

**Test Includes:** Mitochondrial antibody level reported as Negative, Borderline, Weakly Positive or Positive.

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***Logistics***

**Test Indications:** Testing for Anti-Mitochondrial Antibodies (AMA) is indicated in patients suspected of having Primary Biliary Cirrhosis (PBC). Positive results for AMA of M2 specificity are highly specific for PBC, and false-negative results are rare.

**Lab Testing Sections:** Serology - Sendouts

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

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 – 3 days, test set up Monday – Saturday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

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

**Draw Volume:** 1.5 mL (Minimum: 1.2 mL) blood

<b>Processed Volume:</b>	0.5 mL (Minimum: 0.4 mL) serum
<b>Collection:</b>	Routine blood collection
<b>Special Processing:</b>	Lab Staff: Centrifuge specimen, remove serum aliquot and store in a screw-capped plastic vial. Store and ship refrigerated. Forward promptly.
<b>Patient Preparation:</b>	None
<b>Sample Rejection:</b>	Specimens other than serum, gross hemolysis, gross lipemia, mislabeled or unlabeled specimens

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***Interpretive***

<b>Reference Range:</b>	Negative	<0.1 Units
	Borderline	0.1 - 0.3 Units
	Weakly Positive	0.4 – 0.9 Units
	Positive	≥1.0 Units
<p>Note: Reference ranges apply to all ages.</p> <p>Positive results for AMA of M2 specificity are highly specific for Primary Biliary Cirrhosis (PBC) and false-negative results are rare. A positive result for ANA of M2 specificity in patients with clinical features of PBC is virtually diagnostic for this disease.</p>		

**Critical Values:** N/A

**Limitations:** The level of AMA is not useful to indicate the stage or prognosis of the disease or for monitoring the course of the disease. Positive results are found (infrequently) in patients with CREST syndrome (Calcinosis Raynaud's phenomenon, Esophageal hypomobility, Sclerodactyly, and Telangiectasia), relatives of patients with PBC and other autoimmune diseases.

**Methodology:** Enzyme Immunosorbent Assay (EIA)

**References:** [Mayo Medical Laboratories](#) January 2018

**Updates:**

5/12/2005: Mayo has expanded their reference range reporting for this test. Previously reported as Positive or Negative.

4/24/2006: Recommended storage temperature has changed from frozen to refrigerated. Frozen specimens will still be accepted, but refrigerated specimens have a faster turnaround time.

1/17/2018: Collection container update.

