Lab Dept: Serology

Test Name: GLIADIN, DEAMIDATED, ANTIBODIES (IgG & IgA)

**General Information**

**Lab Order Codes:** DGP

**Synonyms:** Deamidated Gliadin Antibodies, IgA and IgG, serum; Antigliadin Antibodies; Antigliadin Ab

**CPT Codes:** 83516 x2 – Immunoassay, analyte, qualitative; multiple step method

**Test Includes:** Deamidated Gliadin Antibodies: IgG, IgA levels reported in EliA U/mL.

**Logistics**

**Test Indications:** Evaluating patients suspected of having celiac disease, including patients with symptoms compatible with celiac disease, patients with atypical symptoms, and individuals at increased risk of celiac disease.

Monitoring compliance for a gluten-free diet.

**Lab Testing Sections:** Chemistry – Minneapolis Campus only

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

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 1 - 4 days, test performed Monday - Friday

**Special Instructions:** N/A

**Specimen**

**Specimen Type:** Blood

**Container:** Red, marble or gold top tube

**Draw Volume:** 1.5 mL (Minimum: 0.9 mL) blood

**Processed Volume:** 0.5 mL (Minimum: 0.3 mL) serum

**Collection:** Routine venipuncture
Special Processing: Lab Staff: Centrifuge specimen, remove serum aliquot into a screw-top plastic vial. Store at refrigerated temperatures. Freeze at or below -20°C if not tested within 48 hours.

Specimen stability: Room temp: 8 hours, Refrigerated: 48 hours

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimens; heparinized plasma

### Interpretive

<table>
<thead>
<tr>
<th>Reference Range:</th>
<th>Deamidated Gliadin IgA (AGP) Antibodies (all ages)</th>
</tr>
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<tbody>
<tr>
<td>&lt;7 EliA U/mL</td>
<td>Negative</td>
</tr>
<tr>
<td>7 – 10 EliA U/mL</td>
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**Interpretation:**

AGP >10 EliA U/mL or AGP and GGP >10 EliA U/mL and patient <7 years: Possible Celiac disease, recommend HLA, EMA or biopsy

Critical Values: N/A

Limitations: N/A

Methodology: Fluoroenzyme immunoassay

References:

- Phadia AB EliA Directions for Use (August 2010)
**Updates:**

- **4/14/2004:** Test moved from Specialty Laboratories to Mayo Medical Laboratories.
- **10/9/2007:** Mayo implemented the use of an ELISA assay that detects deamidated gliadin. Note new reference ranges.
- **11/2/2009:** Testing moved from MML to testing internally at Children’s.
- **5/15/2013:** Move from Gliadin IgA/IgG to Deamidated Gliadin IgA/IgG. See updated reference ranges.
- **2/9/2016:** Update container types