**Lab Dept:** Serology  
**Test Name:** CELIAC DISEASE PANEL REFLEX  

### General Information

**Lab Order Codes:** CELIA  
**Synonyms:** Celiac Disease Panel  
**CPT Codes:**  
83516 x4 – Immunoassay for analyte other than infectious agent antibody or infectious agent antigen, qualitative or semiquantitative; multiple step method  
82784 – Total IgA (if appropriate)  
**Test Includes:** Anti-Deamidated Gliadin IgA Specific, Anti-Deamidated Gliadin IgG Specific, Anti-Tissue Transglutaminase IgA Specific, Anti-Tissue Transglutaminase IgG Specific; TTGA; TTGG  
Reflex: **Total IgA** will be performed at an additional charge when tTG-IgA is negative, and tTG-IgG is positive, or when the instrument flags a low IgA.

### Logistics

**Test Indications:** Useful for differential diagnosis of intestinal disorders such as celiac disease and Crohn’s disease. May be useful for monitoring 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; performed Monday - Friday  
**Special Instructions:** **Endomysial Antibody** is orderable separately and referred to Mayo Medical Laboratories for testing.

### Specimen

**Specimen Type:** Blood  
**Container:** SST (Gold, marble or red) 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 and transfer into a screw-top plastic vial. Store at refrigerated temperatures. Freeze at or below -20˚C if not tested within 48 hours.

Patient Preparation: None

Sample Rejection: Mislabeled or unlabeled specimen

**Interpretative**

<table>
<thead>
<tr>
<th>Test Name (all ages)</th>
<th>Negative (Elia U/mL)</th>
<th>Equivocal (Elia U/mL)</th>
<th>Positive (Elia U/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tissue transglutaminase IgA (TTGA)</td>
<td>&lt;7</td>
<td>7 - 10</td>
<td>&gt;10</td>
</tr>
<tr>
<td>Tissue transglutaminase IgG (TTGG)</td>
<td>&lt;7</td>
<td>7 - 10</td>
<td>&gt;10</td>
</tr>
<tr>
<td>Deamidated Gliadin antibody IgA (GGP)</td>
<td>&lt;7</td>
<td>7 - 10</td>
<td>&gt;10</td>
</tr>
<tr>
<td>Deamidated Gliadin antibody IgG (AGP)</td>
<td>&lt;7</td>
<td></td>
<td>&gt;10</td>
</tr>
</tbody>
</table>

Reflexive Total IgA (mg/dL) Please refer to IgA (Immunoglobulin A) for reference ranges.

**Interpretation:**
TTGA >10 Elia U/mL: Suggestive of Celiac disease
TTGA and TTGG both >10 U/mL: Suggestive of Celiac disease
AGP >10 Elia U/mL or AGP and GLG >10 Elia U/mL and patient <7 years: Possible Celiac disease, recommend HLA, EMA or biopsy

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Fluorenzyme immunoassay

**References:** Phadia AB Elia Directions for Use (August 2010)


Updates:
10/9/2007: Gliadin IgG and IgA updated to deamidated ELISA tests.
10/14/2008: tTG reference range/units update previously listed as <20 Units.
11/2/2009: Testing moved from MML to testing internally at Children’s.
2/2/2012: Gliadin Ab IgG reference range updated.
5/15/2013: Gliadin IgG and IgA changed to Deamidated Gliadin IgG and IgA.
12/5/2018: Updated collection container info.