# Celiac Disease Antibody Panel

**TEST NAME** | **METHODOLOGY** | **LOINC CODE**
--- | --- | ---
Tissue Transglutaminase IgA (IgA anti-tTG) | Chemiluminescence Assay | 46128-5
Gliadin Deamidated Antibody, IgA | Chemiluminescence Assay | 63453-5
Gliadin Deamidated Antibody, IgG | Chemiluminescence Assay | 63459-2
Immunoglobulin, IgA Quantitative | Turbidometric | 2458-8

**SPECIMEN REQUIREMENTS**

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Specimen Volume (min)</th>
<th>Specimen Type</th>
<th>Specimen Container</th>
<th>Transport Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preferred</td>
<td>1 mL (0.5 mL)</td>
<td>Serum</td>
<td>Clot Activator SST</td>
<td>Refrigerated</td>
</tr>
</tbody>
</table>

**Instructions**

Allow specimen to clot completely at room temperature. Separate serum from cells ASAP or within 2 hours of collection. Stability After separation from cells: Ambient 8 hours, Refrigerated 2 days, Frozen 30 days (avoid repeated freeze/thaw cycles).

**GENERAL INFORMATION**

**Testing Schedule**

Mon, Wed, Fri

**Expected TAT**

2-5 Days

**Clinical Use**

RML now recommends utilizing the celiac panel rather than the celiac analyzer because of the major improvements in the sensitivity and specificity of the IgA and IgG anti-gliadin assays. The celiac panel will now include quantitative IgA, the utilization of the synthetic gliadin-related deamidated peptides and human tissue transglutaminase (tTG). The utilization of the human tissue transglutaminase (tTG) and the synthetic gliadin-related deamidated peptide antigens in the EIA assay format for the detection of IgA anti-tTG, IgA anti-gliadin and IgG anti-gliadin have proven to be very sensitive and highly specific for celiac disease.

**Notes**

IgA deficiency is 10-15 times greater in patients with CD and therefore it would be important to reflex to IgG anti-tTG if the patient is IgA deficient and negative for IgG anti-gliadin. In patients with normal levels of IgA, any of the above serologic assays are suitable for following compliance to diet. A diet compliant patient will experience loss of the IgA anti-tTG, IgA anti-gliadin and/or IgG anti-gliadin after approximately 6 months.

**CPT Code(s)**

83516x3; 82784

**Lab Section**

Immunology - Serology