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**Lab Dept:** Serology

**Test Name:** GLIADIN, DEAMIDATED, IGG ANTIBODY

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***General Information***

**Lab Order Codes:** GGP

**Synonyms:** Deamidated Gliadin IgG Antibody

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

**Test Includes:** Deamidated Gliadin IgG Antibody reported in EliA U/mL.

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***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 with 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 Tuesday and Friday

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

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

**Draw Volume:** 1 mL (Minimum: 0.6 mL) blood

**Processed Volume:** 0.3 mL (Minimum: 0.2 mL) serum

**Collection:** Routine venipuncture

**Special Processing:** Lab Staff: Centrifuge specimen, remove serum aliquot and transfer into a screw-capped round bottom plastic vial. Store at refrigerated temperatures. Freeze at or below -20°C if not tested within 48 hours.

Stability: Refrigerated up to 48 hours, room temperature for 8 hours.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimens; lipemic; hemolysis; contaminated specimens

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***Interpretive***

**Reference Range:**

<b>Deamidated Gliadin IgG (GGP) Antibodies (all ages)</b>	
<7 EliA U/mL	Negative
7 – 10 EliA U/mL	Equivocal
>10 EliA U/mL	Positive
<b>Interpretation:</b> Gliadin, Deamidated, IgA >10 EliA U/mL or Gliadin, Deamidated, IgA >10 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)

CLSI document H18-A3 (Volume 24 Number 38): Procedures for the Handling and Processing of Blood Specimens; Approved Guidelines – Third Edition

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition, 2001

**Updates:** 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 IgG to Deamidated Gliadin IgG. Note reference value changes.  
8/2/2015: Sample rejection criteria update.  
2/9/2016: Update container types

