
Lab Dept: Serology

Test Name: GLIADIN, DEAMIDATED, IGG ANTIBODY

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.

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

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

Interpretive

Reference Range:

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

