
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

Reference Range:

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

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:

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