
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: Red 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 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

Interpretive

Reference Range:

Test Name (all ages)	Negative (Elia U/mL)	Equivocal (Elia U/mL)	Positive (Elia U/mL)
Tissue transglutaminase IgA (TTGA)	<7	7 - 10	>10
Tissue transglutaminase IgG (TTGG)	<7	7 - 10	>10
Deamidated Gliadin antibody IgA (GGP)	<7	7 - 10	>10
Deamidated Gliadin antibody IgG (AGP)	<7		>10
Reflexive Total IgA (mg/dL)	Please refer to IgA (Immunoglobulin A) for reference ranges.		
<p>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</p>			

Critical Values: N/A

Limitations: N/A

Methodology: Fluorezyme 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

Updates:

1/11/2007: CPT 2007 update

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.