Lab Dept:	Serology
Test Name:	CELIAC CASCADE
General Information	
Lab Order Codes:	CELCS
Synonyms:	Celiac Disease Serology Cascade, Celiac Cascade Panel, Celiac Panel
CPT Codes:	82784: Total IgA
	83516 x 1-4: Immunoassay for analyte other than infectious agent antibody or infectious agent antigen, qualitative or semiquantitative; multiple step method. (As appropriate, per testing algorithm)
Test Includes:	 Patients ≥2 years old: Total IgA If Total IgA is Normal or Elevated: TTg IgA is performed at an additional charge If TTG IgA result is Equivocal, Deamidated Gliadin IgA will be performed at an additional charge If Total IgA is low but ≥6.0: TTg IgA, TTg IgG, and Deamidated Gliadin IgA and IgG are performed at additional charge If Total IgA is deficient (<6.0): TTg IgG and Deamidated Gliadin IgG are performed at additional charge Patients < 2 years old: Total IgA If Total IgA is detectable (≥6.0): TTg IgA, TTg IgG, and Deamidated Gliadin IgA and IgG are performed at additional charge If Total IgA is detectable (≥6.0): TTg IgA, TTg IgG, and Deamidated Gliadin IgA and IgG are performed at additional charge If Total IgA is detectable (≥6.0): TTg IgA, TTg IgG, and Deamidated Gliadin IgA and IgG are performed at additional charge If Total IgA is deficient (<6.0): TTg IgG and Deamidated Gliadin IgA and IgG are performed at additional charge
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:	SST (Gold, marble or red) 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:

Negative (Elia U/mL)	Equivocal (Elia U/mL)	Positive (Elia U/mL)
		<u>Ilobulin A)</u> for
<7	7 - 10	>10
<7	7 - 10	>10
<7	7 - 10	>10
<7	7 - 10	>10
	(Elia U/mL)Please refer to age based ref<7	(Elia U/mL)(Elia U/mL)Please refer to IgA (Immunog age based reference ranges<7

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

Limitations:	N/A
Methodology:	Total IgA: Immunoturbidimetric
	TTGA, TTGG, GGP, AGP: Fluorenzyme 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:	1/9/2024: New panel