
Reporting Title: Celiac Disease Comprehensive Casc**Performing Location:** Rochester**Ordering Guidance:**

This cascade should not be used in patients who have previously been or are currently being treated with a gluten-free diet. For these individuals, CDGF / Celiac Disease Gluten-Free Cascade, Serum and Whole Blood should be ordered.

This cascade should not be used in patients for whom human leukocyte antigen (HLA) DQ2/DQ8 typing has already been performed. For individuals who are positive for either DQ2 and/or DQ8, CDSP / Celiac Disease Serology Cascade, Serum should be ordered to assess for the presence of autoantibodies associated with celiac disease. For individuals who are negative for DQ2 and DQ8, no further testing is necessary as a diagnosis of celiac disease is unlikely.

Cascade testing is recommended for celiac disease. Cascade testing ensures that testing proceeds in an algorithmic fashion. The following cascades are available; select the appropriate one for your specific patient situation.

- CDCOM / Celiac Disease Comprehensive Cascade, Serum and Whole Blood: Complete testing including HLA DQ
- CDSP / Celiac Disease Serology Cascade, Serum: Complete serology testing excluding HLA DQ
- CDGF / Celiac Disease Gluten-Free Cascade, Serum and Whole Blood: For patients already adhering to a gluten-free diet

To order individual tests, see Celiac Disease Diagnostic Testing Algorithm

Specimen Requirements:

Both blood and serum are required.

Specimen Type: Blood

Container/Tube: Yellow top (ACD solution A or B)

Specimen Volume: 6 mL

Collection Instructions: Send whole blood in original tube. Do not aliquot.

Specimen Type: Serum

Collection Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Submission Container/Tube: Plastic vial

Specimen Volume: 2 mL

Collection Instructions: Centrifuge and aliquot serum into a plastic vial.

Specimen Minimum Volume:

Blood: 3 mL

Serum: 1.5 mL

Forms:

If not ordering electronically, complete, print, and send Gastroenterology and Hepatology Test Request (T728) with the specimen

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	14 days	
	Frozen	21 days	
Whole Blood ACD-B	Refrigerated (preferred)		
	Ambient		

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
IGA	Immunoglobulin A (IgA), S Also used by tests: IGA, IMMIG	Numeric	mg/dL	2458-8
DQA	DQ alpha 1 Also used by tests: CELI2, CELI	Alphanumeric		94495-9
DQB	DQ beta 1 Also used by tests: CELI, CELI2	Alphanumeric		53938-7
CELIG	Celiac gene pairs present? Also used by tests: CELI, CELI2	Alphanumeric		48767-8
28991	Celiac Disease Interpretation	Alphanumeric		69048-7

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
IGA	Immunoglobulin A (IgA), S			Yes	Yes
CELI2	HLA-DQ Typing			Yes	Yes (Order CELI)
CDCM1	Celiac Disease Interpretation			Yes	No

CPT Code Information:

81376 x 2
82784
86258 (if appropriate)
86364 (if appropriate)
86231 (if appropriate)

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
EMA	Endomysial Abs, S (IgA)			No	Yes
EMAT	EMA Titer, S (IgA)			No	No
DAGL	Gliadin(Deamidated) Ab, IgA, S			No	Yes
TTGG	Tissue Transglutaminase Ab, IgG, S			No	Yes
DGGL	Gliadin(Deamidated) Ab, IgG, S			No	Yes
TTGA	Tissue Transglutaminase Ab, IgA, S			No	Yes

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
EMA	9360	Endomysial Ab	Alphanumeric		46126-9
EMAT	65091	EMA Titer, S (IgA)	Alphanumeric		27038-9
DAGL	DAGL	Gliadin(Deamidated) Ab, IgA, S	Numeric	U	47393-4
TTGG	TTGG	Tissue Transglutaminase Ab, IgG, S	Numeric	U/mL	56537-4
DGGL	DGGL	Gliadin(Deamidated) Ab, IgG, S	Numeric	U	47394-2
TTGA	TTGA	Tissue Transglutaminase Ab, IgA, S	Numeric	U/mL	46128-5

Reference Values:

IMMUNOGLOBULIN A (IgA)
0-<5 months: 7-37 mg/dL
5-<9 months: 16-50 mg/dL
9-<15 months: 27-66 mg/dL
15-<24 months: 36-79 mg/dL
2-<4 years: 27-246 mg/dL
4-<7 years: 29-256 mg/dL
7-<10 years: 34-274 mg/dL
10-<13 years: 42-295 mg/dL

13-<16 years: 52-319 mg/dL
16-<18 years: 60-337 mg/dL
> or =18 years: 61-356 mg/dL

HLA-DQ TYPING

Presence of DQ2 or DQ8 alleles associated with celiac disease