

CELIAC DISEASE ANTIBODY SCREEN

Clinical Information

Celiac disease is a gluten sensitive enteropathy characterized as a non-allergic immune-mediated sensitivity to gluten in wheat or related proteins found in barley and rye. As a result, the villi of the small intestine degenerate causing malabsorption. This anomaly can occur in children and adults causing varying symptoms.

Antibodies against tissue transglutaminase are disease specific serological markers. Gliadins, the alcohol-soluble polypeptides, are responsible for the effects to the intestinal mucosa. Gliadin antibody levels correlate with the appearance of the intestinal mucosa making this another reliable marker for celiac disease.

NOTE: Tests in this screening panel are also orderable separately; see test codes below.

Test Description	Test Code
Deamidated Gliadin IgG	278506
Deamidated Gliadin IgA	278508
Tissue Transglutaminase (Celikey®) IgA	278502
Tissue Transglutaminase (Celikey®) IgG	278504

Limitations

Clinical diagnoses should not be based solely on the results of one diagnostic method; All clinical and laboratory findings should be taken into account when a definitive clinical diagnosis is being made.

Test # 278500
Synonyms Celikey®, anti-tTg, and Gliadin
Category Autoimmune
Indication/Use Patients showing signs and symptoms of Celiac disease.

Specimen Requirements

Specimen Serum (Serum Separator Tube)
Volume 0.5 mL serum
Handling Sample should be sent refrigerated within 48 hours of collection.

Assay Parameters

Methodology ELIA™ Phadia (Enzyme-Linked Immunosorbent Assay)
CPT code Suggested 83516 (4X)
Reference Range < 7 U/mL Negative for all values.
7-10 U/mL Equivocal for all values.
>10 U/mL Positive for all values.

References

1. Anderson, Robert P. "Screening for Coeliac Disease: Integration of technology and stakeholders." *EliA Journal* 1 (2004): n. pag. Web. 28 Feb. 2010. <http://www.phadia.com/upload/Autoimmunity/EliA%20Journal/Files/EJE_04_1_200905.pdf>.
2. "Autoimmunity." *Phadia*. N.p., n.d. Web. 28 Feb. 2010. <<http://www.phadia.com>>.
3. Ribes-Koninckx, Carmen, and Ester Donat Aliaga. "Coeliac Disease: New Clinical Aspects." *EliA Journal* 1 (2003): n. pag. Web. 28 Feb. 2010.