

Celiac Disease Dual Antigen Screen

DETECTS IGA AND IGG AGAINST TISSUE TRANSGLUTAMINASE (TTG) AND DEAMIDATED GLIADIN PEPTIDES (DGP)

Test Highlights

- Detection of IgA and IgG against tissue transglutaminase (tTG) and deamidated gliadin-deprived peptides (DGP) in a single test.
- Diagnosis of celiac disease and dermatitis herpetiformis even in the presence of IgA deficiency.
- FDA-approved for in vitro diagnostic use.

Clinical Background

- Celiac disease (CD), also known as gluten-sensitive enteropathy (GSE), is characterized by chronic inflammation and flattening (villous atrophy) of the intestinal mucosa, resulting in malabsorption syndrome.
- The etiology of GSE remains unknown, but gliadin, the alcohol-soluble fraction of wheat gluten, is the antigenic target.¹
- Patients with CD may have typical gastrointestinal manifestations, such as diarrhea, abdominal distention, and/or malabsorption. Other features of CD may include anemia, infertility, neurologic disorders, and/or osteoporosis. Some patients may be asymptomatic.
- All patients with GSE have an increased risk of lymphoma.²
- A gluten-free diet may control GSE and associated risks.
- Dermatitis herpetiformis (DH) is a skin eruption characterized by neutrophil-filled papules. Like GSE, it is associated with an immune response to gluten.

Indications for Ordering

This assay can be used as an initial screen to aid in the diagnosis of patients suspected of having celiac disease or dermatitis herpetiformis.

Interpretation

A positive result should be followed by endoscopy to confirm a diagnosis of celiac disease or dermatitis herpetiformis.

Limitations

Test results alone are not diagnostic. Results should be used in conjunction with other clinical findings and possibly biopsy to make a diagnosis of celiac disease or dermatitis herpetiformis.

Methodology

Enzyme immunoassay (EIA) using human native tissue transglutaminase and synthetic deamidated gliadin peptides.

Related Tests

- Celiac Disease Reflexive Panel ([0051065](#))
- Tissue Transglutaminase Antibody (tTG), IgA ([0097709](#))
- Tissue Transglutaminase Antibody, IgG ([0056009](#))
- Tissue Transglutaminase (tTG) Antibody, IgA with Reflex to Endomysial Antibody, IgA Titer by IFA ([0050734](#))
- Deamidated Gliadin Peptide (DGP) Antibodies, IgA & IgG ([0051358](#))
- Deamidated Gliadin Peptide (DGP) Antibody, IgA ([0051357](#))
- Deamidated Gliadin Peptide (DGP) Antibody, IgG ([0051359](#))
- Immunoglobulin A ([0050340](#))
- Endomysial Antibody, IgA by IFA ([0050736](#))
- Endomysial Antibody, IgG ([2005501](#))
- Celiac Disease Dual Antigen Screen with Reflex ([2002026](#))

References

1. Green PH, Cellier C. Celiac disease. *N Engl J Med.* 2007;357(17):1731–43
2. Catassi C, Bearzi I, Holmes GK. Association of celiac disease and intestinal lymphomas and other cancers. *Gastroenterology.* 2005;128:S79–86.
3. Jaskowski TD, et al. Novel screening assay performance in pediatric celiac disease. Poster presented at the 21st International Conference on Celiac Disease, Maribor, Slovenia, 2007. A PDF of the poster is available; contact Troy D. Jaskowski (jaskowtd@aruplab.com).
4. Rostom A, Murray JA, Kagnoff MF. American Gastroenterological Association (AGA) Institute technical review on the diagnosis and management of celiac disease. *Gastroenterology.* 2006;131(6):1981–2002.

Test Information

0051689

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For specific collection, transport, and testing information, refer to the ARUP website at www.aruplab.com.

For information on test selection, ordering, and interpretation, refer to ARUP Consult® at www.arupconsult.com.

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