Looking for high specifity?

LIAISON® tTg IgA is the solution

LIAISON® tTg IgA by chemiluminescence

The Coeliac Disease

Gluten-sensitive enteropathy or coeliac disease is a chronic condition affecting genetically-susceptible children and adults.
Their inability to digest gluten leads to chronic inflammation and damage the small intestinal mucosa, with flattening of the gut epithelium.
The disease is caused by a pathological intolerance to gliadin, the alcohol-soluble fraction of gluten in wheat, rye and barley. Untreated subjects affected by coeliac disease may suffer from failure to thrive, diarrhoea, gastrointestinal disorders, anaemia, chronic fatigue, psychiatric problems, or they may be asymptomatic. Gluten-free diet leads to complete remission of the disease, and thus has to be maintained for life. Consumption of gliadin will cause the symptoms to recur.

LIAISON® tTg IgA assay

an important aid in the diagnosis of coeliac disease

DiaSorin introduces the automated LIAISON® tTg IgA assay, an innovative chemiluminescence test for quantitative determination of tissue transglutaminase IgA antibodies.
The use of human recombinant tissue transglutaminase (from baculovirus) and monoclonal antibody to human IgA ensures high specificity in respect to other current testing technologies.
In fact, tissue transglutaminase has been identified as the major autoantigen, while IgA antibodies against tissue transglutaminase are a highly specific serological marker for coeliac disease.
In addition, IgA correlate with disease activity and thus are of paramount importance for diet monitoring.

Clinical performance

Total of 154 samples (1-20 years)

	BIOPSY		ELISA REF.			LIAISON® tTg IgA			TOTAL
	neg.	pos.	neg.	equiv.	pos.	neg.	equiv.	pos.	
Controls	59	0	59	0	0	59	0	0	59
Patient affected by Coeliac Disease (CD)	0	67	8	3	56	1	0	66	67
Patients affected by CD in Gluten Free Diet (GFD)	28*	-	21	1	6	21	0	7	28

Dr. D. Basso, Dept. Med. Laboratory, University Hospital, Padua Italy

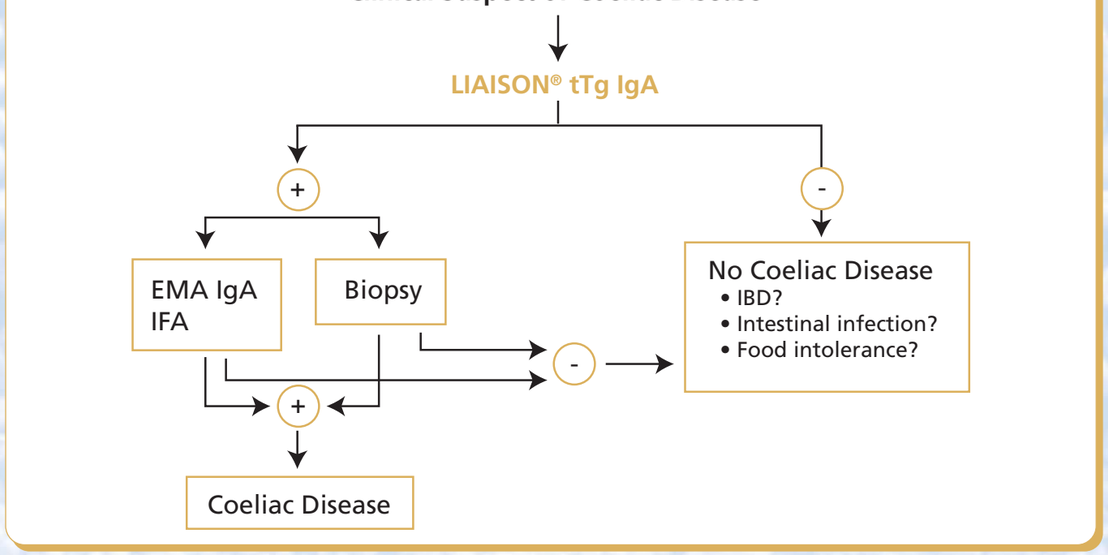
* Positive biopsy at the moment of diagnosis becomes negative after Gluten Free Diet

Diagnostic specificity: 100% (95% confidence interval: 93.94-100%)
Diagnostic sensitivity: 98.51% (95% confidence interval: 91.96-99.96%)

The Assay

- LIAISON® tTg IgA assay uses human recombinant tissue transglutaminase (from baculovirus) for coating magnetic particles (solid phase) and a mouse monoclonal antibody to human IgA is linked to an isoluminol derivative (isoluminol-antibody conjugate)
- LIAISON® tTg IgA is a quantitative assay. Calibrators are referenced to an in-house antibody preparation and may aid in the diagnosis and monitoring the disease
- LIAISON® tTg IgA with its broad range allows the classification of Coeliac Disease staging of children and adults

tTg IgA algorithm



Ease of use

- **Full automation**
- **Two-point recalibration** stable for 2 weeks
- **Controlled reagent** cooling and incubation conditions
- **Calibrators included**
- **Ready-to-use** reagent cartridge

Flexibility enables quick results

- **High throughput:** 45 results/hour
- **Time to first result:** 35 min
- **Stored master curve**
- **Small sample volume:** 20 µl

LIAISON® tTg IgA