

Technical Data

Kit Size	96 wells
Plate Format	'Break apart' wells
Sample Dilution	1:100
Assay Timing	30/30/10 min at room temperature
Standards	0, 6.2, 12.5, 25, 50 & 100 U/ml
Normal Values	IgG < 10 U/ml IgA < 4 U/ml
Reagents	Colour coded and ready to use
Typical CVs	4 - 12 %
Quality Control	Positive, negative and cut off controls are included.
Microplate Photometer	Optical density read at 450 nm
Product code	GD16

Gliadin IgG

The Genesis Gliadin IgG and IgA kits are rapid ELISA methods for the detection of antibodies to gliadin. The assays are intended to aid the diagnosis of coeliac disease.

Gliadin is a mixture of glutamine-rich proteins found in wheat, barley and rye gluten. Immunological reaction to gliadin in the upper small bowel occurs in genetically pre-disposed individuals with coeliac disease (CD) and in CD-associated diseases (e.g. dermatitis herpetiformis). The disease is characterised by inflammation and villous atrophy resulting in characteristically flat mucosa. These changes lead to malabsorption. Symptoms include weight loss, vomiting and diarrhoea. Withdrawal of gluten from the diet of the CD patient leads to disease regression and patients who adhere to a strictly gluten-free diet remain symptom-free.

Although the diagnosis of CD relies on biopsy, the role of serologic detection of anti-gliadin antibodies in diagnosis and disease monitoring is now well-established. Since anti-gliadin IgG antibodies are more sensitive but less specific, and anti-gliadin IgA is more specific and less sensitive, determination of both anti-gliadin IgA and IgG antibodies is recommended. Patients with CD have an increased incidence of total IgA deficiency. Thus, very low levels of anti-gliadin IgA should be viewed with caution.

In the Genesis ELISA, the microplate is coated with purified wheat gliadin and has a shelf-life of up to 18 months after the date of manufacture.

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