

# Technical Data

Kit Size	96 tests
Sample Dilution	1:100
Assay Timing	30 + 30 + 10 minutes
Standards IgA	0 - 100 U/ml
Normal Values	< 7 U/ml
Typical CVs	<8%
Quality Control	Positive and Negative control included
Microplate Photometer	450 / 620nm
Product code	GD71

## Transglutaminase IgA (Recombinant)

The Genesis Transglutaminase IgA and IgG kits are rapid ELISA methods for the detection of circulating IgA or IgG antibodies to tissue transglutaminase (tTg).

Patients with coeliac disease, produce IgA and IgG class antibodies to gliadin and to a component of the gut endomysium. Recently, tissue transglutaminase (tTg), a calcium-dependent enzyme that catalyzes the transamidation of specific polypeptide-bound glutamine residues, has been identified as the unknown endomysial antigen. Interestingly, gliadin is the preferred substrate for this enzyme creating antigenic neopeptides which are thought to generate the immune response in genetically susceptible individuals.

The immunological detection of IgA autoantibodies to tTg is a useful tool in the diagnosis and follow-up of coeliac disease (CD). The presence of IgA autoantibodies to tTg closely correlates with the detection of anti-endomysial antibodies detected by indirect immunofluorescence. The ELISA method allows economical and rapid screening of large numbers of individuals for the presence of latent or subclinical disease. The Genesis ELISA permits the quantitative detection of anti-tTg IgA using microwells coated with purified human recombinant tTg. The shelf life of the kit is up to 18 months.

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