

Technical Data

Kit Size	96 wells
Plate Format	'Break apart' wells
Sample Dilution	1:100
Assay Timing	30/30/10 Min
Standards	0, 25, 50, 100 & 400 U/ml
Normal Values	< 50 U/ml
Reagents	Colour coded and ready to use
Typical CVs	4 -12%
Quality Control	A positive control is included in the kit
Microplate Photometer	Optical density read at 450 nm
Product code	GD10

ds-DNA Antibodies

The Genesis ds-DNA IgG antibodies kit is a rapid ELISA method for the detection of IgG antibodies to double-stranded (ds) DNA. It is intended as an aid to diagnosis of systemic lupus erythematosus (SLE).

Many different methods have been used to determine DNA antibodies and in general agreement between different methods is not good. Assays need to cope with a wide range of antibody avidity as well as interference from single stranded DNA antibodies.

Genesis proprietary technology enables human ds-DNA to be coated onto microtiter wells without altering the double helix structure of DNA.

To confirm that only double stranded DNA is bound to the microplate, plates are tested with monoclonal antibodies with specificity for single and double stranded DNA. Only minimal binding of ss-DNA monoclonal antibody is observed. A human control serum with elevated levels of ss-DNA but negligible ds-DNA antibodies is also run in every batch. The assay is calibrated against Wo/80.

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Diagnostics

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