

Product Specification Sheet

**Purified Native dsDNA, Calf Thymus, ELISA/Antigen grade**

**Cat. #** DNAD25-N-1    Purified Native dsDNA, Calf Thymus, ELISA/Antigen grade    **SIZE:** 1 mg

Antibodies reactive with ds-DNA, of primary importance for diagnosis of systemic lupus erythematosus (SLE), appear to play a central role in the pathogenesis of tissue injury and are closely correlated with clinical activity. Their presence is also associated with active lupus and usually with immune complex glomerulo-nephritis. Antibodies to ds-DNA are directed against the phosphate-deoxyribose backbone of the DNA molecule, and appear to be generated due to preferential activation of specific B cells and are not merely due to polyclonal B-cell hyperactivity prior to exacerbation of SLE. Antibodies to ssDNA (nucleotide bases) are also common, most notably in ANAs producing homogeneous pattern in indirect immunofluorescence. Anti-ssDNA are also found in non-immunological disorders as well as in autoimmune diseases such as rheumatoid arthritis, SLE, and systemic sclerosis. However, autoantibodies to dsDNA when present in high concentration are virtually specific for SLE (>90%).

**Source of Antigen and Antibodies**

dsDNA, native, has been specially purified from Calf thymus and tested by ELISA for reactivity with control DNA antibodies. It is high mol wt 10-15 million Daltons (41.9 mole % G\_C and 58.1 mole A-T; An OD of 1.0 at 260nm=50 ug of dsDNA). It is supplied in PBS, pH 7.4, at 1 mg/ml (or see lot sp. conc on the vial). Store at -20oC in suitable size aliquots. If supplied in powder form then dissolve it in PBS or other buffers at 1 mg/ml or at a desired concn. DO not freeze and thaw.

**Suggested usage**

ELISA for the detection of antibodies to DNA-coat at 1 10 ug/ml and detect with suitable mouse antibodies (#DNA11-M) or rabbit anti-DNA antibodies.

This lot of dsDNA has been tested in ADI ELISA # 5110, 5120, 5130 and the coated dsDNA detected both IgG and IgM anti-dsDNA antibodies.

**Storage**

**Short-term:** unopened, undiluted vials for less than a week at 4oC.

**Long-term:** at -20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

**Stability:** 6-12 months at -20oC or below.

**Shipping:** 4oC for solutions and room temp for lyophilized items.

\*This product is for in vitro research use only.

**Related Items**

Catalog# ProdDescription

3100	Human anti-dsDNA ELISA Kit, 96 tests, Quantitative
5110	Mouse Anti-dsDNA Ig's (Total A+G+M) ELISA Kit, 96 tests, Quantitative
5120	Mouse anti-dsDNA IgG-specific ELISA Kit, 96 tests, Quantitative
5130	Mouse anti-dsDNA IgM-specific ELISA Kit, 96 tests, Quantitative
650-130-DDN	Rat anti-dsDNA IgG-specific ELISA Kit, 96 tests, Quantitative
670-100-DNM	Monkey Anti-dsDNA Ig's ELISA Kit, 96 tests, Quantitative
DNA11-M	Monoclonal Anti-dsDNA IgG # 1, aff pure
DNAD15-AS	dsDNA-cellulose (affinity support) (for removing autoantibodies to dsDNA or DNA-binding proteins)
DNAD25-N-1	Purified Native dsDNA, Calf Thymus, ELISA/Antigen grade
DNAS35-N-1	Purified Native dsDNA, Calf Thymus, ELISA/Antigen grade

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