

Product Specification Sheet

Purified Native ssDNA, Calf Thymus, ELISA/Antigen grade

□ **Cat. #** DNAS35-N-1 Purified Native ssDNA, 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 wells 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

ssDNA, native, has been specially purified from Calf thymus and tested by ELISA for reactivity with control ssDNA 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 ssDNA-coat at 1 10 ug/ml and detect with suitable antibodies.

This lot of dsDNA has been tested in ADI ELISA # 5310, 5320, 5330 and the coated ssDNA detected both IgG and IgM anti-ssDNA 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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