

Double-Stranded DNA (dsDNA) Antibodies, IgG, Serum

Test ID: ADNA1; performed at Mayo Clinic Laboratories Florida.

Useful for:

Evaluating patients with clinical features or at-risk for systemic lupus erythematosus (SLE)

Monitoring disease activity, as an adjunct test, in patients with SLE previously positive for double-stranded DNA IgG antibodies

Methods:

Enzyme-Linked Immunosorbent Assay (ELISA)

Reference Values:

<100 IU/mL (negative)

> or =100 IU/mL (positive)

Negative is considered normal.

Reference values apply to all ages.

Specimen Requirements:

Collection Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Submission Container/Tube: Plastic vial

Specimen Volume: 0.30 mL

Collection Instructions: Centrifuge and aliquot serum into a plastic vial.

Minimum Volume: 0.30 mL

Specimen Stability Information:

Specimen Type	Temperature	Time
Serum	Refrigerated (preferred)	21 days
	Frozen	21 days

Cautions:

Measurement of IgG antibodies to double-stranded DNA (dsDNA) are semiquantitative. Slight changes in reactivity of these antibodies should not be relied upon to predict changes in the clinical course of patients with systemic lupus erythematosus (SLE). Clinical flares of disease in patients with SLE may not be accompanied by changes in the reactivity of dsDNA antibodies. Thus, anti-dsDNA antibody results alone are not sufficient to guide disease management.

Weak-positive results may not correlate with a diagnosis of SLE. Confirmation with *Crithidia luciliae* indirect immunofluorescence test (CLIFT), which is more specific for SLE, may be useful to establish or exclude the diagnosis in certain circumstances.

A weak-positive dsDNA IgG result by enzyme-linked immunosorbent assay and a CLIFT-negative result may suggest early disease, remission, or false-positive results.

False-positive results are usually of low titers.

A negative result does not exclude a diagnosis of SLE.

CPT Code:

86225

Day(s) Performed: Monday through Friday **Report Available:** 1 to 3 days

Questions

Contact Bonnie Meyers, Laboratory Resource Coordinator at 800-533-1710.