Overview

Useful For
This assay is useful for evaluating patients with suspected or who have the diagnosis of systemic lupus erythematosus.

Testing Algorithm
See Connective Tissue Disease Cascade (CTDC) in Special Instructions

Special Instructions
- Connective Tissue Disease Cascade (CTDC)

Method Name
Only orderable as reflex. For more information see ADNAR / DNA Double-Stranded (dsDNA) Antibodies with Reflex, IgG, Serum.

NY State Available
Yes

Specimen

Specimen Type
Serum

Specimen Required
Only orderable as reflex. For more information see ADNAR / DNA Double-Stranded (dsDNA) Antibodies with Reflex, IgG, Serum.

Specimen Minimum Volume
0.2 mL

Specimen Stability Information

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
<th>Special Container</th>
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<tbody>
<tr>
<td>Serum</td>
<td>Refrigerated (preferred)</td>
<td>21 days</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Frozen</td>
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Clinical and Interpretive

Clinical Information
A positive Anti-Nuclear Antibodies (ANA) result usually occurs in a number of autoimmune disorders such as systemic lupus erythematosus (SLE), mixed connective tissue disease (MCTD), rheumatoid arthritis (RA), Sjögren’s syndrome (SS), and progressive systemic sclerosis (PSS). However, the incidence of low titer ANA positives increases with age in normal individuals. High titers of autoantibodies directed against dsDNA may decrease with successful therapy and increases in acute recurrence of the disease. Also, dsDNA immune complexes play a role in the pathogenesis of SLE through the deposit of the complexes in the kidney and other tissues. For
these reasons, the detection of autoantibodies directed against dsDNA is diagnostically and therapeutically helpful in patients suspected or known to have SLE.

Reference Values
Only orderable as reflex. For more information see ADNAR / DNA Double-Stranded (dsDNA) Antibodies with Reflex, IgG, Serum.

Interpretation
Negative results are considered normal.

A positive result for dsDNA antibodies is consistent with the diagnosis of SLE.

Cautions
IgG antibodies to double-stranded DNA (dsDNA) by *Crithidia luciliae* immunofluorescence is reported qualitatively (positive or negative). For semiquantitative assessment of IgG antibodies to dsDNA, see results from ADNA / DNA Double-Stranded (dsDNA) Antibodies, IgG, Serum.

A positive result for IgG antibodies to dsDNA by *Crithidia luciliae* may occur in patients with diseases other than systemic lupus erythematosus (SLE). A negative result does not exclude a diagnosis of SLE.

Clinical Reference

<table>
<thead>
<tr>
<th>Reference</th>
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<tbody>
<tr>
<td>7. Package insert: Bio-Rad Kallestad Crithidia luciliae Substrate</td>
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</table>

Performance

Method Description
Autoantibodies in a test sample directed against dsDNA bind to antigens in the substrate placed on the slide—which, in this case, is *Crithidia luciliae*. Washing removes excess serum from the substrate. Fluorescein conjugated (FITC) antiserum added to the substrate attaches to the bound autoantibody. After a second washing step to remove excess conjugate, the substrate is coverslipped and viewed for fluorescent patterns with a fluorescent microscope. Observation of specific fluorescent patterns on the substrate indicates the presence of autoantibodies in the test sample.(Package insert: Bio-Rad Kallesta Crithidia luciliae Substrate (506307) July 2009)
PDF Report
No

Day(s) and Time(s) Test Performed
Monday through Saturday; 4 p.m.

Analytic Time
2 days

Performing Laboratory Location
Rochester

Fees and Codes

Fees
- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their Regional Manager. For assistance, contact Customer Service.

Test Classification
This test has been cleared, approved or is exempt by the U.S. Food and Drug Administration and is used per manufacturer's instructions. Performance characteristics were verified by Mayo Clinic in a manner consistent with CLIA requirements.

CPT Code Information
86255

LOINC® Information

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<td>CRITH</td>
<td>dsDNA Ab by Crithidia IFA, IgG, S</td>
<td>58466-4</td>
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<table>
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