Overview

Useful For
Evaluating patients with signs and symptoms of a connective tissue disease in whom the test for antinuclear antibodies is positive

Testing is not useful in patients without demonstrable antinuclear antibodies.

Profile Information

<table>
<thead>
<tr>
<th>Test ID</th>
<th>Reporting Name</th>
<th>Available Separately</th>
<th>Always Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSA</td>
<td>SS-A/Ro Ab, IgG, S</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SSB</td>
<td>SS-B/La Ab, IgG, S</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SM</td>
<td>Sm Ab, IgG, S</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>RNP</td>
<td>RNP Ab, IgG, S</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SCL70</td>
<td>Scl 70 Ab, IgG, S</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>JO1</td>
<td>Jo 1 Ab, IgG, S</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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

Special Instructions
- Connective Tissue Disease Cascade (CTDC)

Method Name
Multiplex Flow Immunoassay

NY State Available
Yes

Specimen

Specimen Type
Serum

Specimen Required

Container/Tube:

Preferred: Red top

Acceptable: Serum gel

Specimen Volume: 0.5 mL

Forms
If not ordering electronically, complete, print, and send a General Request (T239) with the specimen.

**Specimen Minimum Volume**

0.35 mL

**Reject Due To**

<table>
<thead>
<tr>
<th>Gross hemolysis</th>
<th>Reject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross lipemia</td>
<td>Reject</td>
</tr>
<tr>
<td>Gross icterus</td>
<td>OK</td>
</tr>
</tbody>
</table>

**Specimen Stability Information**

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

**Clinical and Interpretive**

**Clinical Information**

SSA, SSB, SM, and RNP are extractable nuclear antigens (ENA) that occur in patients with several different connective tissue diseases. Scl 70 (topoisomerase 1) is a 100-kD nuclear and nucleolar enzyme. Scl 70 antibodies are considered to be specific for scleroderma (systemic sclerosis) and are found in up to 60% of patients with this connective tissue disease. Scl 70 antibodies are more common in patients with extensive cutaneous involvement and interstitial pulmonary fibrosis, and are considered a poor prognostic sign. (1) JO1 is a member of the amino acyl-tRNA synthetase family of enzymes found in all nucleated cells and a marker for the disease polymyositis.

For more information, see individual unit codes.

**Reference Values**

**SS-A/Ro ANTIBODIES, IgG**

<1.0 U (negative)

> or =1.0 U (positive)

Reference values apply to all ages.

**SS-B/La ANTIBODIES, IgG**

<1.0 U (negative)

> or =1.0 U (positive)

Reference values apply to all ages.

**Sm ANTIBODIES, IgG**
Test Definition: ENAE
Ab to Extractable Nuclear Ag Eval,S

<1.0 U (negative)
> or =1.0 U (positive)

Reference values apply to all ages.

RNP ANTIBODIES, IgG
<1.0 U (negative)
> or =1.0 U (positive)

Reference values apply to all ages.

Scl 70 ANTIBODIES, IgG
<1.0 U (negative)
> or =1.0 U (positive)

Reference values apply to all ages.

Jo 1 ANTIBODIES, IgG
<1.0 U (negative)
> or =1.0 U (positive)

Reference values apply to all ages.

**Interpretation**
A positive result is consistent with a connective tissue disease.

For more information, see individual unit codes.

**Cautions**
No significant cautionary statements

**Clinical Reference**


**Performance**

**Method Description**
See individual unit codes.

**PDF Report**
No
Test Definition: ENAE
Ab to Extractable Nuclear Ag Eval,S

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

Analytic Time
Same day/1 day

Maximum Laboratory Time
2 days

Specimen Retention Time
14 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
86235 x 6

LOINC® Information

<table>
<thead>
<tr>
<th>Test ID</th>
<th>Test Order Name</th>
<th>Order LOINC Value</th>
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<tbody>
<tr>
<td>ENAE</td>
<td>Ab to Extractable Nuclear Ag Eval,S</td>
<td>90228-8</td>
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<table>
<thead>
<tr>
<th>Result ID</th>
<th>Test Result Name</th>
<th>Result LOINC Value</th>
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<tbody>
<tr>
<td>JO1</td>
<td>Jo 1 Ab, IgG, S</td>
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</tr>
<tr>
<td>RNP</td>
<td>RNP Ab, IgG, S</td>
<td>29958-6</td>
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<tr>
<td>SCL70</td>
<td>Scl 70 Ab, IgG, S</td>
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<tr>
<td>SM</td>
<td>Sm Ab, IgG, S</td>
<td>18323-6</td>
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<td>SSA</td>
<td>SS-A/Ro Ab, IgG, S</td>
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<tr>
<td>SSB</td>
<td>SS-B/La Ab, IgG, S</td>
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