Overview

Useful For
Diagnosis of recent infection by influenza virus type A when isolation of the organism by culture is unsuccessful

Method Name
Immunofluorescence

NY State Available
Yes

Specimen

Specimen Type
Serum

Specimen Required

Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Specimen Volume: 0.25 mL

Collection Instructions: Indicate influenza virus A

Forms
If not ordering electronically, complete, print, and send a Microbiology Test Request (T244) with the specimen.

Specimen Minimum Volume
0.15 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>
</tbody>
</table>

Specimen Stability Information

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
<th>Special Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serum</td>
<td>Refrigerated (preferred)</td>
<td>14 days</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Frozen</td>
<td>14 days</td>
<td></td>
</tr>
</tbody>
</table>

Clinical and Interpretive
Clinical Information

Influenza is usually a mild illness of the upper respiratory tract. Involvement of the lower respiratory tract, however, can lead to 4 types of clinical syndromes: physical signs of lower respiratory tract involvement without roentgenographic evidence of pneumonia, influenza complicated by bacterial pneumonia, primary influenza virus pneumonia, and combined influenza and bacterial pneumonias. Incidence of influenza virus infections is seasonal in the United States and usually occurs only from November to March.

Influenza virus infections are most severe in patients with certain preexisting conditions such as rheumatic heart disease, bronchopulmonary disease, impaired renal function, and diabetes mellitus. Infections can be more severe in elderly patients, pregnant females, and immunocompromised patients.

Influenza virus type A can produce serious illness during the first 2 years of life, with croup, bronchitis, and pneumonia being prominent.

Influenza A may also precipitate asthmatic attacks and produce chronic pulmonary complications in children.

Reference Values

IgG: <1:10

IgM: <1:10

Reference values apply to all ages.

Interpretation

The presence of IgM class antibody or a 4-fold or greater rise in titer in paired (acute and convalescent) sera indicates recent infection.

The presence of IgG class antibody generally indicates past exposure.

Cautions

No significant cautionary statements

Clinical Reference


Performance

Method Description

Human serum is reacted with the antigen substrate. Antibodies, if present, will bind to the antigen forming stable antigen-antibody complexes. If no antibodies are present, the complexes will not be formed and serum components will be washed away. Fluorescein-labeled antihuman-IgG (or IgM) antibody is added to the reaction site which binds with the complexes formed in step 1. This results in a positive reaction of bright apple-green fluorescence when viewed with a properly equipped fluorescence microscope. If no complexes are formed in step 1, the fluorescein labeled antibody will be washed away, exhibiting a negative result. (Package insert: Influenza A or Influenza B Antigen Substrate Slides, MBL Bion, Des Plaines, Illinois 04/12)
PDF Report
No

Day(s) and Time(s) Test Performed
Tuesday, Friday; 9 a.m.

Analytic Time
1 day

Maximum Laboratory Time
4 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
86710 x 2

LOINC® Information

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<th>Test ID</th>
<th>Test Order Name</th>
<th>Order LOINC Value</th>
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<tbody>
<tr>
<td>SFLA</td>
<td>Influenza Virus A Ab, IgG, IgM, S</td>
<td>In Process</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Result ID</th>
<th>Test Result Name</th>
<th>Result LOINC Value</th>
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<tbody>
<tr>
<td>5731</td>
<td>Influenza Virus A Ab, IgG</td>
<td>9532-3</td>
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<tr>
<td>5732</td>
<td>Influenza Virus A Ab, IgM</td>
<td>9533-1</td>
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