Overview

Useful For
Evaluation of patients suspected of having lung disease caused by Aspergillus fumigatus

Method Name
Fluorescence Enzyme Immunoassay (FEIA)

NY State Available
Yes

Specimen

Specimen Type
Serum

Specimen Required
Container/Tube:

Preferred: Serum gel

Acceptable: Red top

Specimen Volume: 0.5 mL

Specimen Minimum Volume
0.3 mL

Reject Due To

<table>
<thead>
<tr>
<th>Condition</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross hemolysis</td>
<td>OK</td>
</tr>
<tr>
<td>Gross lipemia</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>
</tr>
</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>
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Clinical and Interpretive

Clinical Information

Aspergillus fumigatus is one of the causative agents of hypersensitivity pneumonitis (HP), as well as invasive lung disease with cavitation or pneumonitis and allergic bronchopulmonary disease. (1) Other causative microorganisms of HP include Micropolyspora faeni and Thermoactinomyces vulgaris. The development of HP and allergic
bronchopulmonary disease caused by *Aspergillus fumigatus* is accompanied by an immune response to *Aspergillus fumigatus* antigens with production of IgG or IgE antibodies, respectively. While the immunopathogenesis of HP and allergic bronchopulmonary disease is not known, several immune mechanisms are postulated to play a role, including both cellular and humoral mechanisms.

**Reference Values**

<4 years: not established

> or =4 years: < or =102 mg/L

**Interpretation**

Elevated concentrations of IgG antibodies to *Aspergillus fumigatus, Thermoactinomyces vulgaris, or Micropolyspora faeni* in patients with signs and symptoms of hypersensitivity pneumonitis may be consistent with disease caused by exposure to 1 or more of these organic antigens.

**Cautions**

IgG antibodies to *Aspergillus fumigatus, Thermoactinomyces vulgaris, or Micropolyspora faeni* may be found in sera from healthy individuals; the presence of these specific antibodies is not sufficient to establish the diagnosis of hypersensitivity pneumonitis (HP).

Elevated concentration of antibodies to *Aspergillus fumigatus* may be also found in patients with invasive aspergillosis and cavitary lung disease.

The concentrations of antibodies to these antigens may decrease following treatment, although elevated concentrations may persist in treated patients.

**Clinical Reference**


**Performance**

**Method Description**

The Phadia ImmunoCAP System specific IgG fluorescent enzyme immunoassay (FEIA) provides an in vitro method for measuring the levels of circulating specific IgG antibodies in human blood samples. Specific IgG from the patient's serum reacts with the antigen of interest, which is covalently coupled to an ImmunoCAP. After washing away nonspecific IgG, enzyme-labeled anti-IgG antibodies are added to form a complex. After incubation, unbound enzyme-anti IgG is washed away and the bound complex is then incubated with a developing agent. After stopping the reaction, the fluorescence of the eluate is measured. The fluorescence is proportional to the amount of specific IgG, which is present in the patient's sample, ie, the higher the fluorescence value, the more specific IgG antibody is present.(Package insert: Phadia AB, Uppsala, Sweden 2009)

**PDF Report**

No

**Day(s) and Time(s) Test Performed**

Document generated November 2, 2020 at 3:42am CST
Test Definition: SASP
Aspergillus fumigatus, IgG Ab, S

Monday through Friday; 4 p.m.
Saturday: 9 a.m. - 3 p.m.

Analytic Time
Same day/1 day

Maximum Laboratory Time
3 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 was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

CPT Code Information
86606

LOINC® Information

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<th>Test Order Name</th>
<th>Order LOINC Value</th>
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<tbody>
<tr>
<td>SASP</td>
<td>Aspergillus fumigatus, IgG Ab, S</td>
<td>26954-8</td>
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<table>
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<tr>
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