Overview

Method Name
Direct Radioimmunoassay (RIA)

NY State Available
No

Specimen

Specimen Type
Serum

Specimen Required
Draw blood in a plain, red-top or a serum gel tube(s). Separate immediately and send 3 mL of serum frozen in a plastic vial.

Note: 1. Indicate serum on request form.

2. Label specimen appropriately (serum).

Patient preparation:

1. The patient should fast for 10 to 12 hours prior to collection.

2. Medications that affect pancreatic activity should be discontinued, if possible, for at least 48 hours prior to collection of specimen.

Specimen Minimum Volume
1 mL

Reject Due To

| Specimens other than Serum          | Anticoagulants other than NA | Hemolysis Mild reject; Gross reject | Thawing Warm reject; Cold reject | Lipemia Mild reject; Gross reject | Icteric NA |

Specimen Stability Information

<table>
<thead>
<tr>
<th>Specimen Type</th>
<th>Temperature</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Serum</td>
<td>Frozen</td>
<td>180 days</td>
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Clinical and Interpretive

Clinical Information
Serum Elastase, also called Pancreatopeptidase, is a protease present in pancreatic secretion with the unique ability to rapidly hydrolyze elastin. Elastin is a fibrillar protein found in connective tissue. Elastin forms the elastic fibers found mostly in lungs and skin. Elastase is able to hydrolyze denatured hemoglobin, casein, fibrin, albumin and denatured but not native collagen. Elastase has been implicated in the pathogenesis of pulmonary emphysema, atherosclerosis and in the vascular injury of acute pancreatic necrosis. Elastase activity is inhibited by protease inhibitors including α1-Anti-Trypsin, α1-anti-Chymotrypsin, anti-Thrombin III, α2-Macroglobulin and β1-anti-Collagenase. Patients with thyroid dysfunction have decreased Elastase activity. Serum pancreatic levels quantify EL 1 for the diagnosis or exclusion of an acute pancreatitis or an inflammatory episode of chronic pancreatitis or gallstone induced pancreatitis.

Reference Values
Adult Reference Ranges:

Normal pancreatic exocrine function:

Less than 3.5 ng/mL

No pediatric reference ranges available for this test.

Performance

PDF Report
No

Day(s) and Time(s) Test Performed
Monday through Friday

Analytic Time
10 - 14 days

Maximum Laboratory Time
12 - 16 days

Performing Laboratory Location
Inter Science Institute

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.

CPT Code Information
83519
**LOINC® Information**

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<th>Test ID</th>
<th>Test Order Name</th>
<th>Order LOINC Value</th>
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<td>Elastase (Pancreatic Elastase 1), S</td>
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