

Overview

Method Name

Direct ELISA

NY State Available

No

Specimen

Specimen Type

Serum

Specimen Required

Patient Preparation:

1. The patient should fast for 10 to 12 hours prior to specimen collection.
2. Medications that affect pancreatic activity should be discontinued, if possible, for at least 48 hours prior to specimen collection.

Collection Container/Tube:

Preferred: Red top

Acceptable: Serum gel

Submission Container/Tube: Plastic vial

Specimen Volume: 3 mL

Collection Instructions:

1. Draw blood in a plain, red-top or a serum gel tube(s).
2. Centrifuge as soon as possible, aliquot 3 mL of serum into a plastic vial, and freeze immediately.
3. Send frozen.

Specimen Minimum Volume

1 mL

Reject Due To

Gross hemolysis	Reject
Gross lipemia	Reject
Gross icterus	Reject

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
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Serum	Ambient	72 hours	
	Refrigerated	7 days	
	Frozen (preferred)	365 days	

Clinical & 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 α 1-Anti-Trypsin, α 1-anti-Chymotrypsin, anti-Thrombin III, α 2-Macroglobulin and b1-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

Normal pancreatic exocrine function: Less than 3.5 ng/mL

No pediatric reference ranges are available for this test.

Performance

PDF Report

Referral

Day(s) Performed

Monday through Friday

Report Available

12 to 14 days

Performing Laboratory Location

Inter Science Institute

Fees & 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.

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- Prospective clients should contact their account representative. For assistance, contact [Customer Service](#).

Test Classification

This test has not been cleared or approved by the US Food and Drug Administration.

This test was developed and its performance characteristics determined by Inter Science Institute. Values obtained with different methods, laboratories, or kits cannot be used interchangeably with the results on this report. The results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

CPT Code Information

83520

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
FPCEL	Pancreatic Elastase-1	Not Provided

Result ID	Test Result Name	Result LOINC® Value
FPCEL	Pancreatic Elastase-1	14048-3