

Pancreatic Elastase

General:

The human pancreatic elastase 1 is a steroid protein and an endoprotease which is secreted together with other digestion enzymes in the pancreas. A linear correlation of elastase 1 secretion with lipase, amylase and trypsin secretion of the pancreas exists. Elastase 1 is not degraded in the gastrointestinal tract and can therefore be detected in stool. The concentration reflects the exocrine capacity of the pancreas. Due to its stability and specificity, it will replace the chymotrypsin test. In acute pancreatitis, elastase 1 appears in blood and is detectable for 3-4 days.

The following tests are available:

- **Pancreatic Elastase 1 in serum**

Indication: Suspicion of pancreatitis

Material: 1 ml serum

TAT: 5-7 days*

Method: EIA

Units: ng/ml

Ref.- range: <3.50

- **Pancreatic Elastase 1 in stool**

Indication: Suspicion of exocrine pancreas insufficiency

Material: 5 g stool

Preanalytics: If storage and shipment takes longer than one day, sample must be frozen (-20 °C, dry ice)!

TAT: 5-7 days*

Method: EIA

Units: µg/ml st.

Ref.- range: >200

Note: Test is also suitable during enzyme substitution

For complete list of laboratory tests offered at Freiburg Medical Laboratory, please visit <http://www.fml-dubai.com/parameter-listings/>