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**Lab Dept:** Chemistry

**Test Name:** LIPASE

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***General Information***

**Lab Order Codes:** LIPA

**Synonyms:** N/A

**CPT Codes:** 83690 - Lipase

**Test Includes:** Lipase concentration reported in U/L.

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***Logistics***

**Test Indications:** Lipase measurements are used in the diagnosis and treatment of diseases of the pancreas, such as acute pancreatitis and obstruction of the pancreas duct. Lipases are enzymes that hydrolyze glycerol esters of long chain fatty acids.

**Lab Testing Sections:** Chemistry

**Phone Numbers:** MIN Lab: 612-813-6280

STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 hours

**Special Instructions:** N/A

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***Specimen***

**Specimen Type:** Blood

**Container:** Green top (Li Heparin) tube **preferred**  
Alternate tube: Red top tube

**Draw Volume:** 0.6 mL blood

**Processed Volume:** 0.2 mL serum/plasma

**Collection:** Routine blood collection. Mix tubes containing anticoagulant by gentle inversion.

**Special Processing:** Lab Staff: Centrifuge specimen, remove serum/plasma aliquot into a plastic sample cup. Store at refrigerated temperatures.

**Patient Preparation:** None

**Sample Rejection:** Mislabeled or unlabeled specimen; grossly hemolyzed specimens; specimens other than heparinized plasma or serum

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***Interpretive***

<b>Reference Range:</b>	<b>Male &amp; Female</b>	<b>Reference range (U/L)</b>
	0 – 18 years:	4.0 – 40.0
	Adult:	4.0 – 60.0

**Critical Values:** N/A

**Limitations:** N/A

**Methodology:** Kinetic colorimetric

**References:** Sentinel Diagnostic Lipase NG OC Calibrator Kit Package Insert and TcA, Sentinel Diagnostics, distributed by Abbott Diagnostics

Sentinel Diagnostics Lipase NG OC Control 1 Kit Package Insert and TcA, Sentinel Diagnostics, distributed by Abbott Diagnostics

Sentinel Diagnostics Lipase NG OC Control 2 Kit Package Insert and TcA, Sentinel Diagnostics, distributed by Abbott Diagnostics

Sentinel Diagnostics Lipase NG OC Reagent Kit Instructions for Use, Sentinel Diagnostics, distributed by Abbott Diagnostics 04Y85-20-2.0/02, March 18, 2019

CALIPER pediatric reference range database (2019). Retrieved October 3, 2020, <https://caliper.research.sickkids.ca/#/>

Clinical Significance, Dade Behring Inc., Glasgow Business Community, Mailbox 531, P.O. Box 6101, Newark, Delaware 19714

Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp, Inc, Hudson, OH, 5th Edition

Biorad Liquichek Unassayed Chemistry Control Product Insert (10/2005) Bio-Rad Laboratories, Irvine, CA 92618

**Updates:**

2/17/2005: Critical value previously listed as >430 U/L.

12/22/2011: Reference range updated, previously listed as 114 - 286 U/L. Turnaround time updated, previously listed as 4 hours.

11/24/2020: Method update for Abbott