Lab Dept:	Chemistry
Test Name:	ALT
General Information	
Lab Order Codes:	ALT
Synonyms:	Alanine Aminotransferase, SGPT, Serum Glutamic Pyruvate Transaminase
CPT Codes:	84460–Transferase; alanine amino (ALT) (SGPT)
Test Includes:	Alanine Aminotransferase concentration reported in U/L.
Logistics	
Test Indications:	ALT is often measured in conjunction with AST to determine whether the AST source is liver or heart. Elevated levels of AST are found in hepatic disease, myocardial damage, and muscular dystrophy. ALT i the more liver-specific enzyme.
Lab Testing Sections:	Chemistry
Phone Numbers:	MIN Lab: 612-813-6280
	STP Lab: 651-220-6550
Test Availability:	Daily, 24 hours
Turnaround Time:	4 hours
Special Instructions:	N/A
Specimen	
Specimen Type:	Blood
Container:	Green top (Li Heparin) tube preferred Alternate tube: Red, marble or gold 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. Analyze sample immediately or store at refrigerated temperatures.
Patient Preparation:	None
Sample Rejection:	Mislabeled or unlabeled specimen

Interpretive

Reference Range:

Method Abbott	
0 – 364 days:	5 – 33 U/L
1 – 12 years:	9 – 25 U/L
13 – 18 years female:	8 – 22 U/L
13 – 18 years male:	9 – 24 U/L
Adult:	<5 – 55 U/L

Critical Values:

Limitations:

Methodology:ABBOTT: Enzymatic (NAOH without p5-p7)

N/A

References:

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

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

Architect ALT Pkg Insert, Abbott Laboratories Diagnostics Divison, Abbott Park, IL 60064, February 2017

Alinity ALT Pkg Insert, Abbott Laboratories Diagnostics Division, Abbott Park, IL 60064, February 2018

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

Updates:

2/17/2005: Critical value previously listed as >500 U/L. 2/8/2016: Update alt tube types 10/18/2019: New backup instrumentation and related reference ranges 11/9/2020:Method VISTA removed, instrument retired