Test Definition: LCATD

Lecithin Cholesterol Acyltransferase Deficiency Profile

Reporting Title: Lecithin Chol Acyltrans Def
Performing Location: Rochester

Specimen Requirements:

Plasma and serum are required.

Specimen Type: Plasma
Collection Container/Tube: Lavender top (EDTA)
Submission Container/Tube: Plastic vial
Specimen Volume: 1 mL
Collection Instructions:
1. Fasting.
2. Label specimen as plasma.

Specimen Type: Serum
Collection Container/Tube: Red top
Submission Container/Tube: Plastic vial
Specimen Volume: 2.5 mL
Collection Instructions:
1. Fasting-overnight (12-14 hours).
2. Patient must not consume any alcohol for 24 hours before the specimen is drawn.
3. Label specimen as serum.

Specimen Type	Temperature	Time
Plasma EDTA	Frozen	
Serum	Refrigerated (preferred)	7 days
	Frozen	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
TCS	Cholesterol, Total, CDC, S	Numeric	mg/dL	2093-3
CHLES	Cholesteryl Esters, S **Also used by tests: CHLE**	Numeric	% total chol	21197-9
PPL	Phospholipids, S **Also used by tests: PPL**	Numeric	mg/dL	2568-4
83399	16:0 Lysophosphatidylcholine **Also used by tests: LPC**	Numeric	mcmol/L	In Process

Result ID	Reporting Name	Type	Unit	LOINC®
23618	18:0 Lysophosphatidylcholine **Also used by tests: LPC**	Numeric	mcmol/L	In Process
23859	Interpretation **Also used by tests: LPC**	Alphanumeric		59462-2

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
Billing only	Cholesterol, Total, CDC,S	1	82465		
TCS	Cholesterol, Total, CDC, S	1	82465	Yes	Yes (order CHOL)
CHLE	Cholesteryl Esters, S	1	84311	Yes	Yes
PPL	Phospholipids, S	1	84311	Yes	Yes
LPC	Lysophosphatidylcholine, P	1	83789	Yes	Yes

Reference Values:

CHOLESTEROL, TOTAL
The National Cholesterol Education Program (NCEP) has set the following guidelines (reference values):
Desirable: <200 mg/dL
Borderline high: 200-239 mg/dL
High: > or =240 mg/dL
Also see age and sex adjusted reference values in Total Cholesterol-Percentile Ranking in Lipids and Lipoproteins in Blood Plasma (Serum) in Special Instructions.

CHOLESTERYL ESTERS
60-80% of total cholesterol
Reference values have not been established for patients that are <16 years of age.

PHOSPHOLIPIDS
155-275 mg/dL
Reference values have not been established for patients that are <16 years of age.

LYSOPHOSPHATIDYLCHOLINE
16:0 Lysophosphatidylcholine: > or =62 mcmol/L
18:0 Lysophosphatidylcholine: > or =20 mcmol/L
Reference values have not been established for patients that are <16 years of age.

INTERPRETATION
No evidence of decreased lecithin cholesterol acyltransferase activity

Definitive results and an interpretive report will be provided.