

CATALOG# 80069

LDL-CHOLESTEROL ASSAY KIT

Catalog number

LDL-Cholesterol Assay Kit.....80069

Intended use

A high quality enzymatic assay for the quantification of human LDL-cholesterol in serum and plasma.

Test principle

Crystal Chem's LDL-Cholesterol Assay is based on a modified polyvinyl sulfonic acid (PVS) and polyethylene-glycol methyl ether (PEGME) coupled classic precipitation method with the improvements in using optimized quantities of PVS/PEGME and selected detergents. LDL, VLDL, and chylomicron (CM) react with PVS and PEGME and the reaction results in inaccessibility of LDL, VLDL and CM by cholesterol oxidase (CHOD) and cholesterol esterase (CHER), whereas HDL reacts with the enzymes. Addition of the second reagent releases LDL from the PVS/PEGME complex which reacts with the enzymes to produce H₂O₂ which is quantified by the Trinder reaction.

Specifications

Sample Types	Serum and Plasma
Assay Time	10 minutes
Range	4.5 - 245 mg/dL
Sample Size	3 µL
Precision	CV < 10 %
Sensitivity	4.5 mg/dL

Optional Control

Control for LDL- Cholesterol Assay Kit.....Cat# 80063

Highlights

- ✓ Kits use only 3 µL sample
- ✓ Fast assay time (10 minutes)
- ✓ Accurate and easy-to-use
- ✓ Low cost per sample

Summary of protocol

