CREATIVE BIOMART®
Assay Kit

# HDL and LDL/VLDL Assay Kit

## Product Information

**Cat.No.** Kit-0436

**Product Overview**

HDL and LDL/VLDL Assay Kit is a quantitative colorimetric determination of HDL and LDL/VLDL cholesterol.

**Description**

CHOLESTEROL concentrations in High-Density Lipoprotein (HDL) and Low-Density (LDL)/Very-Low-Density (VLDL) Lipoproteins are strong predictors for coronary heart disease. Functional HDL offers protection by removing cholesterol from cells and atheroma. Higher concentrations of LDL and lower concentrations of functional HDL are strongly associated with cardiovascular disease due to higher risk of atherosclerosis. The balances between high- and low-density lipoproteins are solely genetically determined, but can be changed by medications, food choices and other factors. Simple, direct and automation-ready procedures for measuring HDL and LDL/VLDL concentrations are very desirable. HDL and LDL/VLDL Assay Kit is based on our improved PEG precipitation method in which HDL and LDL/VLDL are separated, and cholesterol concentrations are determined using cholesterol esterase/cholesterol dehydrogenase reagent. In this reaction, NAD is reduced to NADH. The optical density of the formed NADH at 340 nm is directly proportionate to the cholesterol concentration in the sample.

**Applications**

Direct Assays: HDL and LDL/VLDL cholesterol in serum samples from any species.Pharmacology: evaluation of drugs on cholesterol metabolism.

**Usage**

For research use only (RUO)

**Storage**

Store PBS and Precipitation Reagent at room temperature and the rest reagents at -20°C. Shelf life of at least 6 months (see expiry dates on labels).

**Kit Components**

Tel: 1-631-559-9269 1-516-512-3133
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PBS 1.5 mLPrecipitation Reagent 1.5 mLAssay Buffer 20 mLEnzyme Mix 120 uLNAD Solution 2 mLStandard: 300mg/dL cholesterol 1 mL

**Detection method** Colorimetric

**Compatible Sample Types**

Serum

**Features & Benefits**

Sensitive and accurate. Requires only 20 µL serum sample. Detection limit of 5 mg/dL, linearity up to 300 mg/dL cholesterol in 96-well plate assay.Convenient. Room temperature assay. No 37°C heater is needed.

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