

AF HDL and LDL/VLDL Assay Kit

Cat. No. Kit-0059 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

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

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. AF 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 a single Working Reagent that combines cholesterol ester hydrolysis, oxidation and color reaction in one step. The color intensity of the reaction product at 570nm or fluorescence intensity at $\lambda_{em}/\lambda_{ex} = 585/530\text{nm}$ is directly proportional to total cholesterol concentration in the sample.

Applications

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

Usage

For research use only (RUO)

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Storage	Store PBS and Precipitation Reagent at room temperature and other reagents at -20°C. Shelf life: 6 months after receipt.
Kit Components	PBS 1.5 mL x 2 Assay Buffer 20 mL Dye Reagent 120 µL Precipitation Reagent 1.5 mL Enzyme Mix 120 µL Standard 1 mL 300mg/dL cholesterol
Detection method	Colorimetric, Fluorometric
Compatible Sample Types	Serum
Features & Benefits	Sensitive and accurate: Linear detection range in 96-well plate: 1 to 100 mg/dL cholesterol for colorimetric assays and 0.2 to 10 mg/dL for fluorimetric assays. Convenient: Room temperature assay. No 37°C heater is needed.

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