CREATIVE BIOMART®
Assay Kit

Cholesterol Assay Kit

Product Information

Cat.No. Kit-0219

Product Overview

Cholesterol Assay Kit is a fluorescence-labeled method for quantification of cholesterol.

Description

Cholesterol circulates in the blood as a free acid, as well as, esterified to long-chain fatty acids called cholesteryl esters. Cholesteryl esters are the preferred form for cholesterol transport and storage. Lecithin: cholesterol acyltransferase (LCAT) is a 67-kDa glycoprotein that is responsible for cholesterol esterification in plasma. The enzyme displays two activities: a phospholipase A2 activity, which hydrolyzes the fatty acyl group from the sn-2 position of phosphatidylcholine; and a transacylase activity, which catalyzes the transfer of the fatty acyl group from the acyl-enzyme complex to the 3-β hydroxyl group of cholesterol to form cholesteryl ester. Elevated levels of cholesterol and cholesteryl esters have been linked to atherosclerosis and heart disease. This has resulted in a large amount of research focused in the understanding of cholesterol homeostasis. Quantitation of cholesterol in experimental samples is imperative to this research.

Usage

For research use only (RUO)

Storage

This kit will perform as specified if stored at -20°C and used before the expiration date indicated on the outside of the box.

Kit Components

Cholesterol Assay Buffer (10X) 3 mLCholesterol Assay Standard 100 μLCholesterol Assay Detector 2 vialsCholesterol Assay Horseradish Peroxidase 1 vialCholesterol Assay Oxidase 1 vialCholesterol Assay Esterase 1 vialDMSO Assay Reagent 1 mL96-Well Solid Plate (black) 1 plate96-Well Cover Sheet 1 cover

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