CREATIVE BIOMART®
Assay Kit

Free Fatty Acid Assay Kit

Product Information

Cat.No.

Kit-0340

Product Overview

Free Fatty Acid Assay Kit is a quantitative colorimetric/fluorimetric fatty acid determination.

Description

Fatty acids are aliphatic monocarboxylic acids that are ubiquitously found in animal or vegetable fat, oil and wax. Fatty Acids play important roles in cellular synthesis, energy metabolism and are implicated in diverse disorders such as diabetes mellitus, sudden infant death syndrome and Reye Syndrome. Free Fatty Acid Assay Kit provides a simple, one-step and high-throughput assay for measuring free fatty acids. In this assay, free fatty acids are enzymatically converted to acyl-CoA and subsequently to H2O2. The resulting H2O2 reacts with a specific dye to form a pink colored product. The optical density at 570nm or fluorescence intensity (530/585 nm) is directly proportional to the free fatty acid concentration in the sample.

Applications

Assays: free fatty acids in biological samples such as serum, plasma, urine, saliva, milk, cell cultures and in food, agriculture products.Drug Discovery/Pharmacology: effects of drugs on free fatty acid metabolism.

Usage

For research use only (RUO)

Storage

Store all components at -20°C. Shelf life of six months after receipt.

Kit Components

Assay Buffer 20 mLDye Reagent 120 μLEnzyme A (Dried) 1 vialEnzyme B 120 μLCoSubstrate 120 μLStandard 1 mL 1 mM palmitic acid

Detection method Colorimetric, Fluorometric

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Free Fatty Acid Assay Kit

Compatible Sample Types

Cell Culture, Food Sample, Milk, Plasma, Saliva, Serum, Urine

Features & Benefits

Sensitive. Use 10 μL samples. Linear detection range: colorimetric assay 7 - 1000 μM, fluorimetric assay 7 - 100 μM fatty acid.Convenient. Room temperature " mix-and-read " procedure can be readily automated for high-throughput assay of thousands of samples per day.

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