CREATIVE BIOMART®
Assay Kit

beta-Hydroxybutyrate Assay Kit

Product Information

Cat.No. Kit-0860

Product Overview

beta-Hydroxybutyrate Assay Kit is used for measuring beta-HB levels.

Description

Diabetic ketoacidosis occurs when circulating insulin levels drop to very low levels, shutting off the supply of glucose to the body. The physiological response is for the liver to produce ketone bodies (acetoacetate, acetone, and primarily β-hydroxybutyrate) from the acetyl CoA produced from fatty acid oxidation. The very high rate of ketone body production outstrips the body''s ability to utilize them as an energy source and the blood concentration builds up. As rather strong acids, they result in a significant drop in blood pH. The β-HB Assay kit utilizes β-HB Dehydrogenase to generate a product which reacts with our colorimetric probe with an absorbance band at 450 nm. The kit is an easy and convenient assay to measure β-HB levels in biological samples. The assay is linear for 1-10 nmol β-HB in up to 100 μL samples or 0.01-0.1 mM of β-HB samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light and moisture. Warm up β-HB Assay Buffers to room temperature before use. Briefly centrifuge all small vials prior to opening.

Kit Components

β-HB Assay Buffer 25 mLβ-HB Enzyme Mix, lyophilized 1 vialβ-HB Substrate Mix, lyophilized 1 vialβ-HB Standard (1.0 µmol), lyophilized 1 vial

Detection method Colorimetric

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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