CREATIVE BIOMART®
Assay Kit

Branched Chain Amino Acid Assay Kit (Leu, Ile, Val)

Product Information

Cat.No. Kit-0132

Product Overview

Branched Chain Amino Acid (Leu, Ile, Val) Assay Kit is used for measuring the BCAA

Description

The branched-chain amino acids or BCAA"s, refer to the amino acids with non-linear aliphatic side-chains, namely leucine, isoleucine and valine. These three essential amino acids make up approximately 1/3 of skeletal muscle in the human body. BCAA"s are currently used clinically to aid in the recovery of burn victims, as well as for strength supplementation for athletes. BCAA"s, primarily Leu, can stimulate insulin secretion. The BCAA"s have also been implicated in a wide range of other physiological effects. The Branched Chain Amino Acid (Leu, Ile, Val) Assay Kit provides a simple convenient means of measuring the BCAA"s in a variety of biological samples. The kit utilizes an enzyme assay in which BCAA is oxidatively deaminated, producing NADH which reduces the probe, generating a colored product (λmax = 450 nm). The Branched Chain Amino Acid (Leu, Ile, Val) Assay Kit measures BCAA"s in the range of 0 to 10 nmol per sample with a detection limit of ~0.2 nmol (~10 µM BCAA in sample). BCAA"s are present in serum ~ 0.1-0.4 mM each (~0.125-1.5 mM combined).

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C, protect from light. Allow Assay Buffer to warm to room temperature before use. Briefly centrifuge vials prior to opening.

Kit Components

BCAA Assay Buffer 25 mLBCAA Enzyme Mix (lyophilized) 1 vialWST Substrate Mix (lyophilized) 1

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Assay Kit

Branched Chain Amino Acid Assay Kit (Leu, Ile, Val)

vialLeu Standard (1 μmol) 100 µL

Detection method Colorimetric

Compatible Sample Types

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

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