CREATIVE BIOMART®
Assay Kit

L-Alanine Assay Kit

Product Information

Cat.No. Kit-0502

Product Overview

L-Alanine Assay Kit is a quantitative colorimetric/fluorimetric determination of L-alanine at OD570, FL530/585 nm.

Description

ALANINE, a nonessential amino acid, is utilized in the glucose-alanine cycle between tissues and the liver. In tissues that metabolize amino acids, amino groups are collected as glutamate by transamination. The amine group is then transferred by alanine transaminase (ALT) from glutamate to pyruvate to form alanine and a-ketoglutarate. The alanine generated is transported to the liver where a reverse ALT reaction occurs and pyruvate is regenerated. Pyruvate is converted through gluconeogenesis to glucose which can then be recirculated to the tissues. Alanine concentration may have some correlation with high blood pressure, energy intake, cholesterol levels and body mass index.

Applications

Direct Assays: alanine levels in plasma, serum, urine, tissue and culture media.Drug Discovery/Pharmacology: effects of drugs on alanine metabolism.

Usage

For research use only (RUO)

Storage

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

Kit Components

Developer 6 mLALT Enzyme 120 µLDye Reagent 120 µLCosubstrate 600 µLAlanine Standard 400 µL

Detection method Colorimetric, Fluorimetric

Compatible Sample Types

Culture Medium, Plasma, Serum, Tissue, Urine

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

CREATIVE BIOMART®
Assay Kit

L-Alanine Assay Kit

Features & Benefits

Sensitive and accurate. Linear detection range in 96-well plate: 1 to 200 μM alanine for colorimetric assays and 0.4 to 20 μM for fluorimetric assays.

Tel: 1-631-559-9269 1-516-512-3133

Fax:1-631-938-8127

Email:info@creative-biomart.org

45-1 Ramsey Road, Shirley, NY 11967, USA