CREATIVE BIOMART®
Assay Kit

Glutamine Assay Kit

Product Information

Cat.No. Kit-0369

Product Overview

Glutamine Assay Kit is a quantitative colorimetric determination of glutamine at 565 nm.

Description

Glutamine is an amino acid synthesized in the muscle that plays major roles in protein synthesis, acid-base balance, anabolic processes and is utilized for cellular energy and as a carbon source. It is used in treatment of injury, trauma, burns, and also as a supplement for muscle growth and post-surgery healing. Simple, direct and automation-ready procedures for measuring glutamine concentration are very desirable. Glutamine Assay Kit is based on hydrolysis of glutamine to glutamate and colorimetric determination of the product. The intensity of the product color, measured at 565 nm, is proportional to the glutamine concentration in the sample.

Applications

Direct Assays: glutamine in serum, plasma, urine, tissue extracts and cell culture samples.Drug Discovery/Pharmacology: effects of drugs on glutamine metabolism.

Usage

For research use only (RUO)

Storage

Store all reagents at -20°C. Shelf life of 6 months after receipt.

Kit Components

Assay Buffer 15 mLNAD Solution 1 mLEnzyme A 120 µLMTT Solution 1.5 mL x 2Enzyme B 220 µLStop Reagent 25 mLStandard (100 mM Glutamine) 400 µL

Detection method Colorimetric

Compatible Sample Types

Cell Culture, Plasma, Serum, Tissue, Urine

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Features & Benefits

Sensitive and accurate: Use 20 µL sample. Linear detection range 0.023 - 2 mM glutamine in 96-well plate assay.Convenient: The procedure involves adding a single working reagent, incubation for 40 min at room temperature, adding a stop reagent and reading the optical density. No 37°C heater is needed.High-throughput: Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

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