CREATIVE BIOMART®
Assay Kit

Glutamine Colorimetric Assay Kit

Product Information

Cat

Kit-2234

Cat.No. Kit-2234

Product Overview

Glutamine (Gln) is one of the most abundant amino acids containing an uncharged amide as a side chain. It is synthesized via condensation of glutamate and ammonia. Gln is classified as a non-essential amino acid, however, Gln is important in several biological processes such as protein synthesis, regulation of acid-balance in mammalian kidneys and cell growth. It constitutes cell's main source of nitrogen for the synthesis of nucleotides and hexosamines. Glutamine-rich diets benefit patients suffering from Crohn's disease, severe burns, HIV/AIDS and cancer. Glutamine Colorimetric Assay kit is a simple and sensitive assay that detects the biologically relevant concentrations of Gln in various fluids and tissues. The assay is based on the hydrolysis of Glutamine to Glutamate producing a stable signal, which is directly proportional to the amount of Gln in the sample. The assay can detect as little as 25 μM of Gln in a variety of biological samples.

Applications

Measurement of Glutamine in various biological samples.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

Hydrolysis Buffer; Development Buffer; Hydrolysis Enzyme Mix (Lyophilized); Development EnzymeMix (Lyophilized); Developer (Lyophilized); Gln Standard (Lyophilized)

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Detection method Absorbance (450 nm)

Features & Benefits

Convenient & Rapid Protocol; This kit can detect as little as 25 μM of Glutamine in a variety of biological samples

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