CREATIVE BIOMART®
Assay Kit

# Glutamine Colorimetric Assay Kit

## Product Information

**Cat.No.** Kit-0370

**Product Overview**

Glutamine Assay Kit (Colorimetric) is used to determine glutamine.

**Description**

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

**Target Species**

Mammals

**Usage**

For research use only (RUO)

**Storage**

Store the kit at -20°C, protected from light.

**Kit Components**

Hydrolysis Buffer 25 mLDevelopment Buffer 25 mLHydrolysis Enzyme Mix (Lyophilized) 1 vialDevelopment Enzyme Mix (Lyophilized) 1 vialDeveloper (Lyophilized) 1 vialGln Standard

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(Lyophilized) 1 vial

**Detection method** Colorimetric

**Compatible Sample Types**

Biological fluids, Serum, Plasma, UrineMammalian tissues: brain samples, liver, kidney etc.

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