



## 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  $\mu$ M 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 mL Development Buffer 25 mL Hydrolysis Enzyme Mix (Lyophilized) 1



CREATIVE BIOMART<sup>®</sup>  
Assay Kit

## Glutamine Colorimetric Assay Kit

Development Enzyme Mix (Lyophilized) 1 vial  
Developer (Lyophilized) 1 vial  
Gln Standard (Lyophilized) 1 vial

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**Detection method** Colorimetric

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**Compatible Sample Types**

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

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