

## Glutamine Colorimetric Assay Kit

**Cat. No.** Kit-2234    **Lot. No.** (See product label)

### SPECIFICATION

#### 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  $\mu$ M 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 Enzyme Mix (Lyophilized); Developer (Lyophilized); Gln Standard (Lyophilized)

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|                         |                     |
|-------------------------|---------------------|
| <b>Detection method</b> | Absorbance (450 nm) |
|-------------------------|---------------------|

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|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Features &amp; Benefits</b> | Convenient & Rapid Protocol; This kit can detect as little as 25 $\mu$ M of Glutamine in a variety of biological samples |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|

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