Glutamine Colorimetric Assay Kit

Cat. No. Kit-0370 **Lot. No.** (See product label)

SPECIFICATION

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

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	(Lyophilized) 1 vialGln Standard (Lyophilized) 1 vial
Detection method	Colorimetric
Compatible Sample Types	Biological fluids, Serum, Plasma, UrineMammalian tissues: brain samples, liver, kidney etc.

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