

## Glutamate Colorimetric Assay Kit

Cat. No. Kit-2233 Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Glutamate, one of the two acidic proteinogenic amino acids, is also a key molecule in cellular metabolism. In humans, glutamate plays an important role both in amino acid degradation and disposal of excess or waste nitrogen. Glutamate is the most abundant swift excitatory neurotransmitter in the mammalian nervous system. It is believed to be involved in learning and memory and has appeared to be involved in diseases like amyotrophic lateral sclerosis, lathyrism, autism, some forms of mental retardation and Alzheimers disease. Glutamic acid is also present in a wide variety of foods, and has been used as a flavor enhancer in food industry. Glutamate Assay Kit provides a sensitive detection method of the glutamate in a variety of samples. The glutamate Enzyme Mix recognizes glutamate as a specific substrate leading to proportional color development. The amount of glutamate can therefore be easily quantified by colorimetric (spectrophotometry at  $\lambda = 450$  nm) method.

#### Storage

-20°C

#### Shipping

Gel Pack

#### Size

100 assays

#### Kit Components

Glutamate Assay Buffer; Glutamate Enzyme Mix; Glutamate Developer; Glutamate Standard (0.1M)

#### Target Species

All

#### Detection method

Absorbance (450 nm)

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**Features & Benefits**

Simple procedure; takes ~ 40 minutes;

Fast and convenient;

Kit contains the necessary reagents for accurate measurement of Glutamate

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