

## Glutamate Assay Kit

### Product Information

**Cat**

Kit-2498

**Cat.No.**

Kit-2498

### Product Overview

Glutamate is an important chemical in general metabolism. It is also a crucial mammalian neurotransmitter that is believed to be involved in a number of neurological and psychiatric disorders such as lateral sclerosis, lathyrism, autism and Alzheimer's disease. Glutamate is also widely used as a flavor enhancer in the food industry. Simple, direct and automation-ready procedures for measuring glutamate concentration are very desirable. glutamate assay kit is based on glutamate dehydrogenase catalyzed oxidation of glutamate, in which the formed NADH reduces a formazan (MTT) Reagent. The intensity of the product color, measured at 565 nm, is proportionate to the glutamate concentration in the sample.

**Storage**

-20°C

**Shipping**

On Ice

**Size**

100 tests

**Detection method** OD565nm

**Compatible Sample Types**

Serum, plasma, urine, cell, tissue etc

**Features & Benefits**

Sensitive and accurate. Detection limit of 50  $\mu$ M, linearity up to 2.5 mM glutamate in 96-well plate

## Glutamate Assay Kit

assay.

Convenient. The procedure involves adding a single working reagent, and reading the optical density at time zero and at 30 min at room temperature. No 37°C heater is needed.

High-throughput. Can be readily automated as a high-throughput 96-well plate assay for thousands of samples per day.

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### Assay time

30 min

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### Sensitivity

50  $\mu$ M

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