

Glutamate Assay Kit

Cat. No. Kit-2498 **Lot. No.** (See product label)

SPECIFICATION

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 µM, linearity up to 2.5 mM glutamate in 96-well plate 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

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needed.

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

Assay time

30 min

Sensitivity

50 μ M

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