

## Glutathione S-transferase Assay Kit

### Product Information

**Cat**

Kit-2448

**Cat.No.**

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### Product Overview

GLUTATHIONE TRANSFERASE (GST; EC 2.5.1.18) is a multifunctional enzyme that plays an important role in cellular detoxification. GST protects cells against foreign compounds such as carcinogens and drugs by catalyzing the attachment of glutathione to the compounds electrophilic and/or hydrophobic sites. Glutathione S-transferase assay kit is based on the GST enzyme reaction between GSH and the GST substrate, CDNB (1-chloro-2,4-dinitrobenzene). The GST catalyzed formation of GS-DNB produces a dinitrophenyl thioether which can be detected spectrophotometrically at 340 nm. The rate of increase in absorbance at 340 nm is directly proportional to the GST activity in the sample.

**Storage**

4°C and -20°C

**Shipping**

RT

**Size**

100 tests

**Detection method** OD340nm

**Compatible Sample Types**

Biological samples (e.g. cell lysates, tissues, etc.)

**Features & Benefits**

Fast and sensitive. Linear detection range (20 µL sample): 2 to 80 U/L for 10 min reaction at 25°C.

## Glutathione S-transferase Assay Kit

Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. Can be readily automated on HTS liquid handling systems for processing thousands of samples per day.

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**Assay time**

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10 min

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**Sensitivity**

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2 U/L

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