

## Glutathione S-Transferase Assay Kit

**Cat. No.** Kit-0398    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Glutathione S-Transferase Assay Kit is a colorimetric method for assaying the activity of GST.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Glutathione S-transferases (GSTs) are ubiquitous multifunctional enzymes, which play a key role in cellular detoxification. The enzymes protect cells against toxicants by conjugating them to glutathione, thereby neutralizing their electrophilic sites, and rendering the products more water-soluble. The glutathione conjugates are metabolized further to mercapturic acid and then excreted. Based on their sequence homology, substrate specificity and immunological cross-reactivity, GSTs have been grouped into species-independent classes of isozymes. These classes are comprised of both cytosolic and microsomal enzymes. |
| <b>Usage</b>            | For research use only (RUO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>          | This kit will perform as specified if stored at -20°C and used before the expiration date indicated on the outside of the box.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Kit Components</b>   | GST Assay Buffer (2X) 1 vialGST Sample Buffer (2X) 1 vialGST Assay (control) 1 vialGST Glutathione 1 vialGST CDNB 1 vial96-Well Plate (Colorimetric Assay) 1 plate96-Well Cover Sheet 1 cover                                                                                                                                                                                                                                                                                                                                                                                                                                               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA