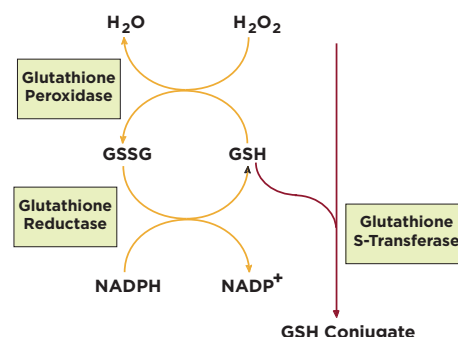


DetectX[®] Glutathione S-Transferase (GST) Activity Kit



- Given its pivotal role in ameliorating oxidative stress/damage, GST activity has been repeatedly investigated as a biomarker for arthritis, asthma, COPD, and multiple forms of cancer, as well as an environmental marker.
- Examination of GST isoforms and activity in human cancers, tumors and tumor cell lines has revealed the predominance of the acidic pi class. Furthermore, this activity is thought to substantially contribute to the innate or acquired resistance of specific neoplasms to anticancer therapy.

DetectX[®] GLUTATHIONE S-TRANSFERASE (GST) FLUORESCENT ACTIVITY KIT (K008-F1)



Our DetectX[®] Glutathione S-Transferase (GST) Fluorescent Activity Kit is designed to quantitatively measure the activity of GST. The kit utilizes a non-fluorescent molecule that is a substrate for the GST enzyme which covalently attaches to glutathione (GSH) to yield a highly fluorescent product. In the end point mode, mixing the sample or standard with the supplied Detection Reagent and GSH yields a fluorescent product which is read at 460nm in a fluorescent plate reader with excitation at 390nm. For rate determination, the intensity at 460nm is read periodically and plotted versus time.

- **Measure** GST in **30 minutes** or kinetically
- **Sample types:** urine, lysates, serum, plasma,
- Measure up to **41 in duplicate**
- **Sensitivity:** < 100 μ U of GST Activity
- **4°C** stable reagents

RELATED DetectX[®] KITS

- Catalase Colorimetric Activity Kit (**K033-H1**)
- Catalase Fluorescent Activity Kit (**K033-F1**)
- FRAP[™] (Ferric Reducing Antioxidant Power) Detection Kit (**K043-H1**)
- Glutathione Colorimetric Detection Kits (**K006-H1/H1C-L/H1C-H**)
- Glutathione Fluorescent Detection Kits (**K006-F1/F5/F1D**)
- Glutathione Reductase (GR) Fluorescent Activity Kit (**K009-F1**)
- Hydrogen Peroxide (H_2O_2) Colorimetric Detection Kit (**K034-H1**)
- Hydrogen Peroxide (H_2O_2) Fluorescent Detection Kit (**K034-F1**)
- TBARS/MDA Universal Colorimetric Detection Kit (**K077-H1**)
- Superoxide Dismutase (SOD) Activity Kit (**K028-H1**)

Intra Assay Precision

Four serum samples were diluted 1:2 with Assay Buffer and run in replicates of 16 in an assay. The mean and precision of the calculated GST activities were:

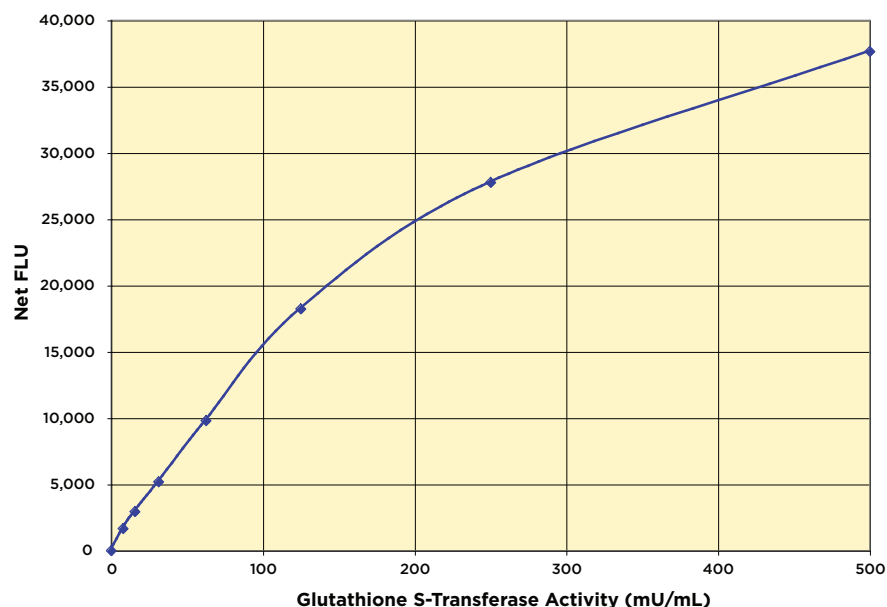
Sample	GST Activity (mU/mL)	%CV
1	315.9	4.6
2	221.2	5.6
3	88.2	4.2
4	22.7	6.6

Inter Assay Precision

Four serum samples were diluted 1:2 with Assay Buffer and run in duplicates in twenty assays over multiple days by four operators. The mean and precision of the calculated GST activities were:

Sample	GST Activity (mU/mL)	%CV
1	291.7	12.6
2	218.5	11.0
3	89.6	10.4
4	23.0	15.9

Typical Standard Curve



Run your own standard curve for calculation of results. Do not use this data.