

## **Product Specification Sheet**

Recombinant Human GST M2-2

Product Number: GS66

Aliquot: 100 µg

Lot Number: gs66.100909

Storage: -70°C

**SPECIFIC ACTIVITY:** 93.3 Units/mg using spectrophotometric determination of 1-

chloro-2,4-dinitrobenzene (CDNB) conjugation with reduced glutathione (1 mM) in 100 mM NaPO<sub>4</sub> (pH 6.5) at room

temperature.

**CONCENTRATION:** 2.55 mg/mL total protein using the Bradford protein assay with

BSA as a standard.

STORAGE BUFFER: 50 mM Tris-HCl (pH 7.5), 50 mM NaCl, 1 mM DTT, 1 mM

EDTA and 50% glycerol.

STORAGE: -70°C; AVOID MULTIPLE FREEZE-THAW CYCLES.

**PURITY:**  $\geq$  95% as assessed by inspection on a Coomassie® Blue-stained

SDS-PAGE gel.

**MOLECULAR WEIGHT:** 26 kDa

**SOURCE:** Human recombinant protein expressed in *E. coli*.

**Note:** This purified product exhibits high enzymatic activity for CDNB, the synthetic substrate that is most commonly used for GST analyses. However, as is widely known for GST activity analysis using CDNB as a substrate, low concentrations (high dilutions) of the enzyme result in lower activity values. In contrast, initial velocities are much higher for more concentrated levels of enzyme but the rate decreases rapidly. Therefore, activity toward CDNB and these considerations provide guidance when assaying this product under low concentrations or when using substrates other than CDNB.