

GGT

Native Bovine gamma-Glutamyl Transferase

| | | | |
|---------------------------------|--|------------------|-------|
| Catalog No. | CSI19653A | Quantity: | 1 KU |
| | CSI19653B | | 10 KU |
| | CSI19653C | | 25 KU |
| Alternate Names: | Gamma-Glutamyl Transpeptidase, gGT, GGTP | | |
| Description: | <p>The enzyme γ-glutamyl transferase (GGT) cleaves C-terminal glutamyl groups from amino acids and transfers them to another peptide or to an amino acid. It is important in glutathione metabolism, amino acid absorption and protection against oxidant injury. Although GGT is found in many tissues, the main source of serum activity is the liver (primarily biliary epithelium), thus GGT is used mainly as a sensitive indicator of biliary hyperplasia. GGT may be increased to a greater degree than ALP activity in diseases associated with biliary hyperplasia in the absence of cholestasis (eg biliary carcinoma, pyrrolizidine toxicosis or Fasciola infections in cattle). In large animals, GGT is a sensitive test for biliary hyperplasia (it is a good marker for pyrrolizidine alkaloid toxicity in ruminants) and cholestasis (which is relatively uncommon in large animals). Overall, GGT is considered a better marker of biliary tract disorders in large animals than ALP. The high GGT specificity permits its use as an indicator of chronic hepatic injuries in cattle herds.</p> | | |
| E.C. Number: | 2.3.2.2 | | |
| Appearance: | Tan powder | | |
| Source: | Bovine kidney | | |
| Formulation: | Lyophilized from Tris-acetate, pH 7.0 | | |
| Protein: | ≥ 0.2 mg protein/mg solid (Coomassie) ≥ 0.4 mg protein/mg solid (A_{280}) | | |
| Biological Activity: | ≥ 15 U/mg, using the Dimension® Clinical Chemistry System One unit will catalyze the transfer of one micromole of the glutamyl moiety from gamma-glutamyl-3-carboxy-4-nitranilide to glycylglycine per minute at 37°C. | | |
| Specific Activity: | ≥ 30 U/mg protein (Coomassie) Report U/mg (A_{280}) | | |
| Contaminants: | ALP: $\leq 0.2\%$ (Dimension® Clinical Chemistry System) CPK: $< 1\%$ LDH: $< 1\%$ SGOT/AST: $< 1\%$ SGPT/ALT: $\leq 0.01\%$ Ammonia: ≤ 0.1 micromole/mg | | |
| Reconstitution: | Recommended to reconstitute at ≥ 1 mg/ml in Tris-buffered saline, 1% BSA, pH 8.0 | | |
| Storage & Stability: | Store at -20°C to -80°C. Stable for 1 year. Avoid repeated freeze-thaw cycles. | | |
| Country of Origin | USA | | |

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

