

Active Recombinant Bovine Trypsin

Cat. No. Trypsin-852B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine Trypsin is free from any animal and human sources. % of inhibition is equal to bovine trypsin.
Species	Bovine
Source	Corn
Description	Trypsin is a serine protease that hydrolyses proteins, it is found in the digestive system of numerous vertebrates. Trypsin is produced as the inactive proenzyme trypsinogen in the pancreas. Trypsin cleaves peptide chains at the carboxyl side of the amino acids lysine and arginine, except when either is followed by proline. Trypsin is secreted into the duodenum, where it acts to hydrolyses peptides into amino acids, which is necessary for the uptake of protein in the food even though peptides are smaller than proteins; they are still too big to be absorbed through the lining of the ileum. The optimal operating pH for Trypsins is about 8 and about 37°C temperature. In cystic fibrosis disease there is a deficiency in transport of trypsin and other digestive enzymes from the pancreas. Trypsin is widely used in various biotechnological processes since it's available in high quantity in the pancreases, and can be purified rather easily.
Form	Sterile Filtered lyophilized powder. The protein was lyophilized without any additives.
Bio-activity	3,650 Units/mg.
Purity	Greater than 90% as determined by RP-HPLC and SDS-PAGE.

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Stability	Bovine Trypsin although stable at room temp for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized Bovine Trypsin in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

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