
Product Data Sheet

Product Name: LACTB E.coli
 Cat. No.: GP21857
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	b-Lactamase; EC 3.5.2.6; TEM-1.		
Amino Acid Sequence	MHPETLVK VKDAEDQLGA RVGYIELDLN SGKILESFRP EERFPMMSTF KVLLCGAVLS RVDAGQEQLG RRIHYSQNDL VEYSPVTEKH LTDGMTVRELCSAAITMSDN TAANLLTTI GGPKELTAFL HNMGDHVTRL DRWEPELNEA IPNDERDTTM PAAMATTLRK LLTGELLTLA SRQQLIDWME ADKVAGPLLR SALPAGWFIA DKSGAGERGS RGIIAALGPD GKPSRIVVIY TTGSQATMDE RNRQIAEIGA SLIKHW.		
Solubility	It is recommended to reconstitute the lyophilized Beta Lactamase in sterile 18MΩ-cm H ₂ O at a concentration of 100 µg/ml, which can then be further diluted to other aqueous solutions. The Beta Lactamase should be used in pH 7.0- 8.0 and in temperature not higher than 45°C.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing 20mM Phosphate buffer pH-7.		

Introduction

Beta-lactamase is a type of enzyme (EC 3.5.2.6) produced by some bacteria that is responsible for their resistance to beta-lactam antibiotics like penicillins, cephalosporins, cephamycins and carbapenems. These antibiotics have a common element in their molecular structure: a four-atom ring known as a beta-lactam. The lactamase enzyme breaks that ring open, deactivating the molecule's antibacterial properties.

Stability

Lyophilized Beta Lactamase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Beta Lactamase Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C .For long term

Caution: Product has not been fully validated for medical applications. For research use only.

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storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Recombinant E.coli Beta-Lactamase produced in E.Coli is a single, non-glycosylated polypeptide chain containing 263 amino acids and having a molecular mass of 29 kDa. Beta Lactamase is purified by proprietary chromatographic techniques.

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