

LACTB E.coli, His

Description: Beta Lactamase is an E.coli Recombinant protein produced in E.Coli containing 379 amino acids (20-377) and having a molecular mass of 41.8kDa. Beta Lactamase is expressed with a 21 N-terminal His tag. The LACTB is purified by proprietary chromatographic techniques.

Catalog #: ENPS-095

For research use only.

Synonyms: Beta-lactamase, Cephalosporinase, ampC, ampA, b4150, JW4111.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MAPQQINDIV HRTITPLIEQ
QKIPGMAVAV IYQGKPYFT WGYADIAKKQ PVTQQTLFEL GSVSKTFTGV LGGDAIARGE
IKLSDPTTKY WPELTAKQWN GITLLHLATY TAGGLPLQVP DEVKSSDLL RFYQNWQPAW
APGTQRLYAN SSIGLFGALA VKPSGLSFEQ AMQTRVFQPL KLNHTWINVP PAEEKNYAWG
YREGKAVHVS PG

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The LACTB enzyme (1 mg/ml) is supplied in 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.

Stability:

LACTB although stable at 4°C 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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