

## Native *Enterobacter cloacae* $\beta$ -Lactamase

Cat. No. NATE-0774

Lot. No. (See product label)

### Introduction

**Description**  $\beta$ -lactamase inactivates  $\beta$ -lactam antibiotics by breaking open the  $\beta$ -lactam ring.

**Applications**  $\beta$ -lactamase is used to inactivate  $\beta$ -lactam antibiotics by breaking open the  $\beta$ -lactam ring.  $\beta$ -lactamase is used to study antibiotic resistance and resistance suppression<sup>1</sup>. This product is produced from *Enterobacter cloacae*.

**Synonyms**  $\beta$ -lactamase; penicillinase; cephalosporinase; neutrapen; penicillin  $\beta$ -lactamase; exopenicillinase; ampicillinase; penicillin amido- $\beta$ -lactamhydrolase; penicillinase I, II;  $\beta$ -lactamase I-III;  $\beta$ -lactamase A, B, C;  $\beta$ -lactamase AME I; cephalosporin- $\beta$ -lactamase; EC 3.5.2.6; 9073-60-3

### Product Information

**Source** *Enterobacter cloacae*

**Form** Lyophilized powder containing sodium phosphate and sodium Citrate buffer salts

**EC Number** EC 3.5.2.6

**CAS No.** 9073-60-3

**Activity** 6-18 units/mg protein (using benzylpenicillin); 0.2-0.6 units/mg protein (using benzylpenicillin)

**Unit Definition** One unit will hydrolyze 1.0  $\mu$ mole of benzylpenicillin per min at pH 7.0 at 25°C. This International Unit (using benzylpenicillin as substrate) is approximately equal to 600 Levy or 75 Pollock units.

### Storage and Shipping Information

**Storage** 2-8°C