

Native *Bacillus cereus* Penicillinase

Cat. No. NATE-0542

Lot. No. (See product label)

Introduction

Description Penicillinase specifically catalyzes the hydrolysis of β -lactam ring of penicillin.

Applications Used in the production of penicillin

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

Product Information

Source *Bacillus cereus*

Form Type I, lyophilized powder, white; Type II, Lyophilized powder containing phosphate and Citrate buffer salts.

EC Number EC 3.5.2.6

CAS No. 9073-60-3

Molecular Weight Mr ~30 kDa

Activity Type I, ~13 units/mg; Type II, 1,500-3,000 units/mg protein (using benzylpenicillin).

Unit Definition One unit will hydrolyze 1.0 μ mole of indicated substrate per min at pH 7.0 at 25°C. Sold as benzylpenicillin units. This International Unit (using benzylpenicillin as substrate) is approximately equal to 600 Levy or 75 Polleck units.

Usage and Packaging

Package Bottomless glass bottle. Contents are inside inserted fused cone.

Storage and Shipping Information

Storage -20°C