Creative Enzymes®

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 μmole 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