

## Native *Bacillus cereus* Penicillinase

### Product Information

<b>Cat#</b>	NATE-0542
<b>Abbr</b>	Penicillinase, Native ( <i>Bacillus cereus</i> )
<b>Similar</b>	Penicillinase
<b>Source</b>	<i>Bacillus cereus</i>
<b>Description</b>	Penicillinase specifically catalyzes the hydrolysis of $\beta$ -lactam ring of penicillin.
<b>Applications</b>	Used in the production of penicillin
<b>Package</b>	Bottomless glass bottle. Contents are inside inserted fused cone.
<b>Enzyme Commission Number</b>	EC 3.5.2.6
<b>CAS No.</b>	9073-60-3
<b>Molecular Weight</b>	Mr ~30 kDa
<b>Unit Definition</b>	One unit will hydrolyze 1.0 $\mu$ 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.
<b>Storage</b>	-20°C
<b>Warnings</b>	Used to destroy $\beta$ -lactam antibiotics in body fluids or culture media. For the determination of penicillin; In the coupled enzyme assay for isopenicillin N synthetase; ELISA of estradiol; Penicillinase optodes
<b>Synonyms</b>	EC 3.5.2.6; $\beta$ -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; 9073-60-3