Creative Enzymes®

Pullulanase from Bacillus subtilis, Recombinant

Cat. No. NATE-1227

Lot. No. (See product label)

Introduction

Description	Pullulanase is a lipoprotein generated as a precursor containing a 19-amino acid signal peptide followed by a palmitate-modified cysteine residue. The signal peptide gets cleaved prior to secretion into the extracellular matrix.
Synonyms	Pullulanase; EC 3.2.1.41; limit dextrinase (erroneous); amylopectin 6-glucanohydrolase; bacterial debranching enzyme; debranching enzyme; α-dextrin endo-1,6-α-glucosidase; R-enzyme; pullulan α-1,6-glucanohydrolase; 9075-68-7; Pullulanase M2

Product Information

Source	Bacillus subtilis subsp. subtilis str. 168
Form	Supplied in 3.2 M ammonium sulphate
EC Number	EC 3.2.1.41
CAS No.	9075-68-7
Molecular Weight	84420.4 Da
Purity	>95 % as judged by SDS-PAGE
Activity	84.66 U/mg
Concentration	558.77 U/ml
Optimum pH	~ 5.0
Optimum temperature	> 37°C
Unit Definition	One unit is defined as the amount of enzyme required to release 1µmol of D-glucose equivalents per minute from soluble starch (9.04 mg/mL; ACS reagent; solubilised by boiling for 5 min in H2O) in 22.59 mM sodium acetate buffer, pH 5.0, containing 0.452 mg/mL BSA, at 37°C.

Usage and Packaging

Preparation Instructions	Agitate vial sufficiently to fully homogenise enzyme precipitate before use.

Storage and Shipping Information

Storage	Store at 4°C (shipped at room temperature)