

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-glucohydrolase; bacterial debranching enzyme; debranching enzyme; α -dextrin endo-1,6- α -glucosidase; R-enzyme; pullulan α -1,6-glucohydrolase; 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 1 μ mol 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)