Creative Enzymes®

Native Klebsiella pneumoniae Pullulanase

Cat. No. NATE-0643

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.
Applications	Pullulanase has been used in a study to assess its l ocation in Escherichia coli K12 carrying the cloned structural gene from Klebsiella pneumoniae. It has also been used in a study to investigate the role of lipid modification on the enzyme in comparison to unmodified pullulanases.
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

Product Information

Source	Klebsiella pneumoniae
Form	Type I, Lyophilized powder containing potassium phosphate buffer salts and stabilizer; Type II, ammonium sulfate suspension, Suspension in 3.2 M (NH4)2SO4 solution, pH 6.2.
EC Number	EC 3.2.1.41
CAS No.	9075-68-7
Activity	Type I, 10-30 units/mg protein; Type II, > 5 units/mg protein (biuret).
Unit Definition	One unit will liberate 1.0 µmole of maltotriose (measured as glucose) from pullulan per min at pH 5.0 at 25°C.

Storage and Shipping Information

Storage	−20°C