

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 location 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 μ mole of maltotriose (measured as glucose) from pullulan per min at pH 5.0 at 25°C.

Storage and Shipping Information

Storage -20°C