Creative Enzymes®

Native Pseudomonas sp. Isoamylase

Cat. No. NATE-0360

Lot. No. (See product label)

Introduction

Description	Isoamylase is an enzyme with system name glycogen 6-alpha-D-glucanohydrolase. This enzyme catalyses the following chemical reaction:Hydrolysis of (1->6)-alpha-D-glucosidic branch linkages in glycogen, amylopectin and their beta-limit dextrins. This enzyme also readily hydrolyses amylopectin.
Synonyms	EC 3.2.1.68; debranching enzyme; glycogen alpha-1,6-glucanohydrolase; isoamylase

Product Information

Source	Pseudomonas sp.
Form	ammonium sulfate suspension; Supplied as a suspension in 3.2 M ammonium sulfate
EC Number	EC 3.2.1.68
CAS No.	9067-73-6
Purity	Single major band on SDS-gel electrophoresis (MW = 71,500).
Activity	180 U/mg protein (on oyster glycogen) at pH 4.0 and 40°C. 200 U/mL
Unit Definition	One Unit of isoamylase activity is defined as the amount of enzyme required to release one µmole of reducing sugar per minute from oyster glycogen (10 mg/mL) in sodium acetate buffer (100 mM), pH 4.0 at 40°C. One Unit as defined here is approximately equal to 67 KU as defined by Sigma for Isoamylase (rice starch as substrate at pH 3.5 and 40°C).

Storage and Shipping Information

Storage	2-8°C