

## 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  $\mu$ mole 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