

Native Barley β-Amylase

Cat. No. NATE-0761

Lot. No. (See product label)

Introduction

Description β-Amylase hydrolyzes the α -(1,4) glucan linkages in polysaccharides of three or

more α -(1,4) linked D-glucose units. Natural substrates such as starch and glycogen are broken down into glucose and maltose. Pure, crystalline β -amylase preparation consists of four isoenzymes with different isoelectric points. The enzyme polymerizes very rapidly through the sulfhydryl groups in the absence of reducing agents. p-Chloromercuribenzoate inhibits the polymerization and the enzymatic activity. The reducing agents mercaptoethanol or dithiothreitol can

completely restore the activity.

Applications β -Amylase is used to hydrolyze α bonds of α -linked polysaccharides, such as starch

and glycogen. $\beta\text{-}Amylase,$ has been used in various plant studies, such as carbon starvation studies in Populus tremuloides. $\beta\text{-}Amylase,$ from barley, has been used to

study how pressure and temperature affect catalytic activity.

Synonyms saccharogen amylase; glycogenase; β amylase, β -amylase; 1,4- α -D-glucan

maltohydrolase; EC 3.2.1.2; 9000-91-3

Product Information

Source Barley

EC Number EC 3.2.1.2

CAS No. 9000-91-3

Activity 20-80 units/mg protein (biuret)

Unit Definition One unit will liberate 1.0 mg of maltose from starch in 3 min at pH 4.8 at 20°C.

Storage and Shipping Information

Storage 2-8°C

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