

## α amylase

Cat. No. BAK-250

Lot. No. (See product label)

## Introduction

Description α-Amylase isolated from porcine pancreas is a glycoprotein.2 It is a single polypeptide chain of

approximately 475 residues containing 2 SH groups and four disulfide bridges and a tightly bound Ca2+ necessary for stability.3,4 Chloride ions are necessary for activity and stability5 The pH range for activity

is 5.5 to 8.0, with the pH optimum at 7.6

**Applications**  $\alpha$ -Amylase is used to hydrolyze  $\alpha$  bonds of  $\alpha$ -linked polysaccharides, such as starch and glycogen.

Product is from porcine pancreas and is type I-A.  $\alpha$ -Amylase has been used in various plant studies, such

as metabolism studies in Arabidopsis.

**Synonyms** PPA

## **Product Information**

Appearance Appearance (Color): White to Light Yellow Appearance (Form): Suspension

**Form** PMSF treated, saline suspension

**EC Number** EC 3.2.1.1

**CAS No.** 9000-90-2

Molecular

51-54 kDa

Weight

Activity 700-1400 units/mg protein (E1%/280)

Unit

One unit will liberate 1.0 mg of maltose from starch in 3 min at pH 6.9 at 20  $^{\circ}\text{C}.$ 

Definition

## Storage and Shipping Information

**Stability**  $\alpha$ -Amylase is stable in 25 mM Tris-HCl, pH 7.5, with 100 mM KCl, at 0 °C or at -20 °C for at least 9 days.8

Another recommended storage condition is in 1 mM phosphate, pH 7.3, with 30 mM CaCl2 at -15 °C.

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