

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

and glycogen. Product is from porcine pancreas and is type I-A. α -Amylase has been used in various plant studies, such as metabolism studies in Arabidopsis.

Synonyms PPA

Product Information

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 Weight 51-54 kDa

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

Unit Definition One unit will liberate 1.0 mg of maltose from starch in 3 min at pH 6.9 at 20 °C.

Storage and Shipping Information

Stability α -Amylase is stable in 25 mM Tris-HCl, pH 7.5, with 100 mM KCl, at 0 °C or at -20

 $^{\circ}\text{C}$ 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.