

Glucoamylase Assay Kit

Cat. No. KITZ-051 Lot. No. (See product label)

SPECIFICATION

Product Overview

Glucoamylase (EC3.2.1.3) also known as Saccharifying enzyme, which is an extracellular enzyme that is secreted by a series of microorganisms and has exonuclease activity. The

main role of glucoamylase is to hydrolyze α -1,4 glycosidic bonds in sequence from non-reducing ends on the carbon chains such as starch, dextrin, glycogen, etc., and cut off each

glucose unit. For amylopectin, when it encounters a branch point, it can also hydrolyze α -1,6 glycosidic bonds, thereby hydrolyzing all amylopectin to glucose. It is one of the important industrial enzyme preparations, and is widely used in alcohol, liquor, antibiotics, amino acids, organic acids, glycerol, starch sugar and other industries. Soluble starch could be hydrolyzed into glucose by glucoamylase. 3, 5-Dinitrosalicylic acid is reduced to brown-red amino compound by co-heating with glucose under alkaline condition. The brown-red amino compound has a maximum absorption peak at 540 nm and the absorbance ratio is in direct proportion to the contents of glucose. The glucoamylase activity is quantified by measuring the color development at 540 nm.

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Size	50T
Storage	2-8°C
Shipping	Ice pack
Kit Components	Extract solution: Liquid 110 mL×1. Store at 2-8°C. Reagent I: Powder×2. Store at 2-8°C. Add 20 mL of Extract solution to one Reagent I before use. Mix thoroughly, then place in a boiling water bath for 10 minutes to make it fully dissolved. It could be stored at 2-8°C for four weeks. Reagent II: Liquid 35 mL×1. Store at 2-8°C and protect from light. Standard: Powder×1. Store at 4°C. Dissolve the standard with 1 mL of Extract solution to generate a 10 mg/mL glucose solution standard. It could be stored at 2-8°C for two weeks.
Materials Required but Not Supplied	Spectrophotometer, water bath, balance, centrifuge, adjustable transferpettor, mortar/homogenizer/cell ultrasonic crusher, 1 mL glass cuvette, ice and distilled water.