

?-Amylase Assay Kit

Product Information

Cat

Kit-2470

Cat.No.

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Product Overview

AMYLASE belongs to the family of glycoside hydrolase enzymes that break down starch into glucose molecules by acting on α -1,4-glycosidic bonds. The α -amylases (EC 3.2.1.1) cleave at random locations on the starch chain, ultimately yielding maltotriose and maltose, glucose and "limit dextrin" from amylose and amylopectin. In mammals, α -amylase is a major digestive enzyme. Increased enzyme levels in humans are associated with salivary trauma, mumps due to inflammation of the salivary glands, pancreatitis and renal failure. Simple, direct and automation-ready procedures for measuring amylase activity are very desirable. The α -amylase assay method involves two steps: (1). α -amylase in the sample hydrolyzes starch and the product is rapidly converted to glucose by α -glucosidase and hydrogen peroxide by glucose oxidase; (2). hydrogen peroxide concentration is determined with a colorimetric reagent.

Storage

4, -20°C

Shipping

On Ice

Size

100 tests

Detection method OD585nm

Compatible Sample Types

Blood, saliva, urine, agriculture etc

Features & Benefits

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Sensitive and accurate. Linear detection range 0.3 to 50 U/L α -amylase in 96-well plate assay. Convenient. The procedure involves adding a single working reagent, incubation for 15 min, followed by the detection reagent and a 20-min incubation and reading the optical density at 585 nm.

Assay time

40 min

Sensitivity

0.3 U/L
