CREATIVE BIOMART®
Assay Kit

?-Amylase Assay Kit

Product Information

Cat

Kit-2470

Cat.No. Kit-2470

Product Overview

AMYLASE belongs to the family of glycoside hydrolase enzymes that break down starch into glucose molecules by acting on a-1,4-glycosidic bonds. The a-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, a-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 a-amylase assay method involves two steps: (1). a-amylase in the sample hydrolyzes starch and the product is rapidly converted to glucose by a-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

Sensitive and accurate. Linear detection range 0.3 to 50 U/L a-amylase in 96-well plate assay.

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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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

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