CREATIVE BIOMART®
Assay Kit

Trehalase (THL) Activity Assay Kit

Product Information

Product Overview

Significance: Trehalase (THL, EC 3.2.1.28) is widely present in animals, plants, microorganisms, and cultured cells. Its primary function is to hydrolyze trehalose into glucose, which is directly used for energy supply.
Principle: The 3,5-dinitrosalicylic acid (DNS) method is used to measure reducing sugars produced from trehalose hydrolysis catalyzed by THL. Reducing sugars react with DNS upon heating to form a brown-red amino compound. Within a certain range, color intensity is proportional to reducing sugar concentration, reflecting THL activity.

Size

100t/48s

Storage

Store at 2–8 °C. Shelf life: 6 months.

Detection method Spectrophotometer/Microplate Reader

Materials Required but Not Supplied

Visible spectrophotometer or microplate reader, water bath, adjustable pipettes, micro quartz cuvettes or 96-well plates, mortar, ice, and distilled water.

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