CREATIVE BIOMART®
Assay Kit

?-Mannosidase Assay Kit

Product Information

Cat.No. Kit-2079

Product Overview

The nonradioactive, colorimetric AMA assay is based on the cleavage of 4- nitrophenol from the synthetic substrate. Nitrophenol becomes intensely colored after addition of the stop reagent. The increase in absorbance at 405 nm after addition of the stop reagent is directly proportional to the enzyme activity.

Size

100 tests

Description

a-MANNOSIDASE (AMA) is an enzyme which catalyzes the cleavage of the alpha form of mannose. a-Mannosidase assists in the breakdown of complex sugars from glycoproteins in the lysosome. Defective AMA or deficient AMA activity causes a-mannosidosis and leads to deterioration of the central nervous system in children.

Applications

For quantitative determination of a-mannosidase enzyme activity using a p-nitrophenol based substrate.

Storage

The kit is shipped at room temperature. Store all components at 4°C upon receiving. Shelf life: 6 months after receipt.

Kit Components

Substrate: 10 mLStop Reagent: 12 mLStandard: 1 mL 12.5 mM Nitrophenol

Detection method OD405nm

Compatible Sample Types

Biological samples e.g. plasma, serum, tissue and culture media.

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Features & Benefits
• Fast and sensitive. Linear detection range (10 μL sample): 1 to 250 U/L for a 10 minute reaction. • Convenient and high-throughput. Homogeneous "mix-incubate-measure" type assay. Can be readily automated on HTS liquid handlingsystems for processing thousands of samples per day.
Assay time
10 min
Sensitivity
Detection Limit: 1 U/L

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