



## alpha-Glucosidase Assay Kit

### Product Information

#### Cat.No.

Kit-0062

#### Product Overview

alpha-Glucosidase Assay Kit is a colorimetric kinetic determination of  $\alpha$ -Glucosidase activity.

#### Description

$\alpha$ -GLUCOSIDASE hydrolyzes the terminal, non-reducing 1,4-linked  $\alpha$ -Dglucose residues with release of  $\alpha$ -D-glucose.  $\alpha$ -Glucosidase is needed by all animals to hydrolyze maltose to glucose for use as a food. Aberrant activities have been implicated in diseases such as diabetes and Pompe disease. Simple, direct and automation-ready procedures for measuring  $\alpha$ -glucosidase activity are becoming popular in Research and Drug Discovery. alpha-Glucosidase Assay Kit is designed to measure  $\alpha$ -glucosidase activity directly in biological samples without pretreatment. The improved method utilizes p-nitrophenyl- $\alpha$ -Dglucopyranoside that is hydrolyzed specifically by  $\alpha$ -glucosidase into a yellow colored product (maximal absorbance at 405nm). The rate of the reaction is directly proportional to the enzyme activity.

#### Applications

Direct Assays:  $\alpha$ -glucosidase activity in biological samples.Characterization and Quality Control for  $\alpha$ -glucosidase production.Drug Discovery: high-throughput screen and evaluation of  $\alpha$ -glucosidase inhibitors.

#### Usage

For research use only (RUO)

#### Storage

Store all reagents at  $-20^{\circ}\text{C}$ . Shelf life: 6 months after receipt.

#### Kit Components

Assay Buffer: (pH 7.0) 24 mL  $\alpha$ -NPG Substrate: 1 mL Calibrator: (equivalent to 250 U/L) 10 mL

**Detection method** Colorimetric



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Assay Kit

## alpha-Glucosidase Assay Kit

### Compatible Sample Types

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Biological Sample

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### Features & Benefits

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High sensitivity and wide linear range: Use 20  $\mu$ L sample. The detection limit is 2 U/L, linear up to 250 U/L. Homogeneous and simple procedure: Simple "mix-and-measure" procedure allows reliable quantitation of  $\alpha$ -glucosidase activity within 20 minutes. Robust and amenable to HTS: All reagents are compatible with highthroughput liquid handling instruments.

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