

alpha-Glucosidase Assay Kit

Cat. No. Kit-0062 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	alpha-Glucosidase Assay Kit is a colorimetric kinetic determination of a-Glucosidase activity.
Description	<p>α-GLUCOSIDASE hydrolyzes the terminal, non-reducing 1,4-linked α-Dglucose residues with release of α-D-glucose. α-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 α-glucosidase activity are becoming popular in Research and Drug Discovery. alpha-Glucosidase Assay Kit is designed to measure α-glucosidase activity directly in biological samples without pretreatment. The improved method utilizes p-nitrophenyl-α-Dglucopyranoside that is hydrolyzed specifically by α-glucosidase into a yellow colored product (maximal absorbance at 405nm). The rate of the reaction is directly proportional to the enzyme activity.</p>
Applications	<p>Direct Assays: α-glucosidase activity in biological samples.Characterization and Quality Control for α-glucosidase production.</p> <p>Drug Discovery: high-throughput screen and evaluation of α-glucosidase inhibitors.</p>
Usage	For research use only (RUO)
Storage	Store all reagents at -20°C. Shelf life: 6 months after receipt.
Kit Components	<p>Assay Buffer: (pH 7.0) 24 mL</p> <p>α-NPG Substrate: 1 mL</p> <p>Calibrator: (equivalent to 250 U/L) 10 mL</p>

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Detection method	Colorimetric
Compatible Sample Types	Biological Sample
Features & Benefits	High sensitivity and wide linear range: Use 20 μ 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 α -glucosidase activity within 20 minutes. Robust and amenable to HTS: All reagents are compatible with highthroughput liquid handling instruments.

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