β-Glucosidase Assay Kit

Cat. No. Kit-2522 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	β-GLUCOSIDASE is a glucosidase enzyme which acts upon β1->4 bonds linking two glucose or glucose-substituted molecules (i.e., the disaccharide cellobiose). β-Glucosidases are required by organisms (some fungi, bacteria, termites) for consumption of cellulose. Lysozyme is also a β-glucosidase and is present in tears to prevent bacterial infection of the eye. In humans, lower activity of a β-glucosidase isoform (lysosomal gluco-cerebrosidase) has been related to Gaucher's disease and Parkinson's disease. Simple, direct and automation-ready procedures for measuring β-glucosidase activity are becoming popular in Research and Drug Discovery. β-Glucosidase Assay Kit is designed to measure β-glucosidase activity directly in biological samples without pretreatment. The improved method utilizes p-nitrophenyl-β-D-glucopyranoside that is hydrolyzed specifically by β-glucosidase into a yellow colored product (maximal absorbance at 405nm). The rate of the reaction is directly proportional to the enzyme activity.
Storage	-20ºC
Shipping	RT
Size	100 tests
Detection method	OD405nm
Compatible Sample Types	Biological

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Features & Benefits	High sensitivity and wide linear range. Use 20 µL 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 β-glucosidase activity within 20 minutes. Robust and amenable to HTS. All reagents are compatible with high-throughput liquid handling instruments.
Assay time	20 min
Sensitivity	2 U/L

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