

?-Glucosidase Assay Kit

Product Information

Cat

Kit-2522

Cat.No.

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Product Overview

β -GLUCOSIDASE is a glucosidase enzyme which acts upon β 1- \rightarrow 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

-20°C

Shipping

RT

Size

100 tests

Detection method OD405nm**Compatible Sample Types**

Biological

?-Glucosidase Assay Kit

Features & Benefits

High sensitivity and wide linear range. Use 20 μ 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 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
