CREATIVE BIOMART®
Assay Kit

# ?-Glucosidase Assay Kit

## Product Information

**Cat**

Kit-2522

**Cat.No.** Kit-2522

**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**

-20°C

**Shipping**

RT

**Size**

100 tests

**Detection method** OD405nm

**Compatible Sample Types**

Biological

**Features & Benefits**

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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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