

## **β-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 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

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## **?-Glucosidase Assay Kit**

### **Features & Benefits**

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  $\beta$ -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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