

## 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

-20°C

#### Shipping

RT

#### Size

100 tests

#### Detection method

OD405nm

#### Compatible Sample Types

Biological

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**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

 Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA