CREATIVE BIOMART®
Assay Kit

Beta Hexosaminidase Activity Assay Kit

Product Information

Cat.No. Kit-3501

Product Overview

Beta Hexosamindase Activity Assay Kit is a simple fluorometric assay that measures beta hexosaminidase activity in a 96-well microtiter plate format. Each kit provides sufficient reagents to perform up to 100 assays, including blanks, beta hexosaminidase positive control and unknown samples.

Storage

Upon receipt, store the Recombinant Beta Hexosaminidase and 10X Substrate at -80°C. Store the remaining components at room temperature.

Size

100 assays

Kit Components

1. Recombinant Beta Hexosaminidase: One 25 µL vial of a 50 µg/mL Recombinant Human Beta Hexosaminidase, for use as optional positive control.
2. 10X Substrate: One 500 µL vial.
3. 5X Assay Buffer: One 30 mL bottle.
4. 10X Neutralization Buffer: One 30 mL bottle.

Materials Required but Not Supplied

1. 96 well black plate
2. 10 µL to 1000 µL adjustable single channel micropipettes with disposable tips
3. 50 µL to 300 µL adjustable multichannel micropipette with disposable tips
4. Multichannel micropipette reservoir
5. Microplate Fluorometer

Preparation

- 1X Assay Buffer: Dilute the stock 5X Assay Buffer 1:5 with deionized water for a 1X solution. Stir or

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vortex to homogeneity. Store unused 1X Assay Buffer at room temperature.
• Beta Hexosaminidase Positive Control: Just prior to use, dilute the provided Recombinant Beta Hexosaminidase (50 µg/mL) 1:10 to 5 µg/mL with 1X Assay Buffer. For example, add 5 µL of the Recombinant Beta Hexosaminidase to 45 µL of 1X Assay Buffer.
• 1X Substrate: Dilute the 10X Substrate 1:10 with 1X Assay Buffer. For example, add 5 µL of 10X Substrate to 45 µL of 1X Assay Buffer for each well used.
Note: Prepare only enough 1X Substrate for immediate use.
• 1X Neutralization Buffer: Dilute the stock 10X Neutralization Buffer 1:10 with deionized water for a 1X solution. Stir or vortex to homogeneity. Store unused 1X Neutralization Buffer at room temperature.

Assay Protocol

1. Add 50 µL of Beta Hexosaminidase samples and Beta Hexosaminidase Positive Control (optional) to the 96-well microtiter black plate.
Note: Samples may be diluted as needed in 1X Assay Buffer.
2. Add 50 µL of the 1X Substrate to each well.
3. Incubate at 37°C for 15 minutes protected from light.
4. Add 100 µL of the 1X Neutralization Buffer to each well.
5. Read the plate at an excitation wavelength of 365 nm and an emission wavelength 450 nm using a microplate fluorometer.