β-Xylosidase Activity Assay Kit (Fluorometric)

Cat. No. Kit-1015 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	β-Xylosidase (EC 3.2.1.37) is a hydrolytic enzyme responsible for the breakdown of hemicellulose, a primary component of the plant cell wall. Specifically, β-Xylosidases remove the terminal β-xylose residue from the non-reducing terminus of a polysaccharide chain. As xylan is the principal variety of hemicellulose present in the plant cell wall, the xylosidase activity is the final step in the enzymatic generation of the five carbon reducing sugar, xylose.Individual reducing sugars can be converted to ethanol, which serves as a building block for biofuels.Xylose can also be converted into other value-added chemicals such as Xylitol and Xylonic Acid.β-Xylosidase Activity Assay Kit provides a quick, reliable, and sensitive fluorometric method for the determination of;-Xylosidase activity.A fluorogenic substrate is incubated with the sample, and in the presence of β-Xylosidase activity, the substrate is cleaved, releasing a fluorophore (Ex Em 330/450 nm).The increase in fluorescence is a direct measure of the β-Xylosidases activity in the sample. When used according to protocol, activities as low as one µUnit (1 pmol/min) in environmental microbial samples, such as compost, can be detected.
Applications	Measurement of β-Xylosidase activity in various biological samples and purified/crude enzyme preparations
Storage	-20°C
Shipping	Gel Pack

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Size	100 assays
Kit Components	β-Xylosidase Assay Buffer; β-Xylosidase Substrate (in DMSO); β-Xylosidase Positive Control; 4-Methylumbelliferone Standard (5 mM)
Target Species	Bacterial
Detection method	Fluorescence (Ex/Em330/450 nm)
Features & Benefits	Simple, rapid & convenient assay to measure β-Xylosidase activity; Includes Positive Control (β-Xylosidase)

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