

General Chitinase Assay Kit

Chitinase Microplate Assay Kit

CATALOG # AAA27826	REACTIVITY General	APPLICATIONS Functional Assay
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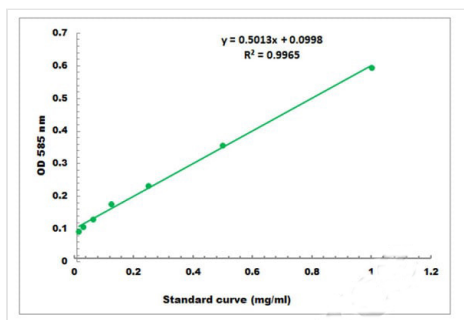
PRODUCT SYNONYMS

Chitinase; Chitinase Microplate Assay Kit; EC 3.2.1.14; 1; 4-beta-poly-N-acetylglucosaminidase; Chitodextrinase; Poly-beta-glucosaminidase; Chitinase assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Samples	Tissue extracts, Cell lysate, Cell culture media and Other biological fluids Samples
Detection Range	0.01 mg/ml - 1 mg/ml
Applicable Applications for Chitinase assay kit	FA (Functional Assay)
Preparation and Storage	Shipped and store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Chitinase assay kit

Background: Chitinases (EC 3.2.1.14) are hydrolytic enzymes that break down glycosidic bonds in chitin. Chitinase catalyzes the hydrolytic cleavage of the beta-1?4-glycoside bond present in biopolymers of N-acetylglucosamine, primarily in chitin. Chitinases are widely distributed in living organisms and are found in fungi, bacteria, parasites, plants, and animals. They are classified in families based on amino acid sequence similarities. As chitin is a component of the cell walls of fungi and exoskeletal elements of some animals (including worms and arthropods), chitinases are generally found in organisms that either need to reshape their own chitin or dissolve and digest the chitin of fungi or animals. Chitinases perform different functions in different organisms. In bacteria, they are mainly involved in nutritional processes. In yeast and various fungi, these enzymes participate in morphogenesis. In animals and plants, chitinases primarily play a role in the defense of the organism against pathogen attack. The assay is initiated with the enzymatic hydrolysis of the chitin by chitinases. The enzyme catalysed reaction products N-acetylglucosamine react with PDAB, and can be measured at a colorimetric readout at 585 nm.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.