

## Native Sinapis alba (white mustard) seed Thioglucosidase

Cat. No. NATE-0468

Lot. No. (See product label)

## Introduction

**Description** Myrosinases are present in many bacteria, fungi, and edible plants, including those of the Brassicaceae

(Cruciferae) family. The enzyme hydrolyzes the S-glucosidic bond of a glucosinolate substrate to form an unstable aglycone that rearranges with the loss of sulfate primarily to the isothiocyanate, though thiocyanates and nitriles are also formed. Many of the isothiocyanate products of aliphatic and aromatic

glucosinolates have cancer chemopreventive properties.

**Applications** Thioglucosidase has been used in a study to assess Brassica species screening for glucosinolate content.

Thioglucosidase has also been used in a study to investigate a negative regulatory role for auxin in

sulphate deficiency response in Arabidopsis thaliana.

**Synonyms** thioglucosidase; EC 3.2.1.147; myrosinase; sinigrinase; Glucosinolase; Thioglucoside

glucohydrolase; 9025-38-1

## **Product Information**

**Species** Sinapis alba

**Source** Sinapis alba (white mustard) seed

**EC Number** EC 3.2.1.147

**CAS No.** 9025-38-1

Activity > 100 units/g solid

**Unit** One unit will produce 1.0 µmole glucose per min from sinigrin at pH 6.0 at 25°C.

Definition

## Storage and Shipping Information

*Storage* −20°C

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