

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; sinigrase; 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 Definition One unit will produce 1.0 μmole glucose per min from sinigrin at pH 6.0 at 25°C.

Storage and Shipping Information

Storage −20°C

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