

Native *Dactylium dendroides* Galactose Oxidase

Cat. No. NATE-0273

Lot. No. (See product label)

Introduction

Description

Galactose oxidase is an extracellular copper-containing enzyme, secreted by the deuteromycete fungus *Dactylium dendroides*. It catalyzes the oxidation of a range of primary alcohols, including D-galactose, to the corresponding aldehyde, with reduction of oxygen to hydrogen peroxide.

Applications

Galactose oxidase may be used as an analytical tool for the specific determination of D-galactose in blood plasma, plant extracts, and phospholipids. It could be used for the characterization of terminal D-galactoside units in several polymers. It may also be useful in the determination of lactose.

Synonyms

EC 1.1.3.9; D-galactose oxidase; β -galactose oxidase; 9028-79-9; Galactose Oxidase

Product Information

Source

Dactylium dendroides

Form

Type I, Lyophilized, contains buffer salts and stabilizer; Type II, lyophilized powder.

EC Number

EC 1.1.3.9

CAS No.

9028-79-9

Activity

Type I, 500-1,500 units/mg protein; Type II, > 3000 units/g solid.

Unit Definition

One unit will produce a ΔA_{425} of 1.0 per min at pH 6.0 at 25°C, in a peroxidase and o-tolidine system. Reaction volume = 3.4 mL. Light path = 1 cm.

Storage and Shipping Information

Storage

-20°C