Creative Enzymes®

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 ΔA425 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