

Galactose Oxidase from *Dactylium dendroides*, Recombinant

Cat. No. NATE-1288

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 GaO has been shown to be useful in a number of biotechnology and medical applications which include monitoring of galactose in blood and urine, paper strengthening additives, test strips for cancer diagnosis, biosensors and lactose detection, dental care and hair coloring and waving.

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

Product Information

Source *Dactylium dendroides*

CAS No. 9028-79-9

Molecular Weight 68.9 kDa (Calculated)

Purity >95% by SDS-PAGE

Activity >1750 U/mg

Isoelectric point 8.34

Buffer 50 mM acetate pH 7.2, 10 μ M CuSO₄

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.

Storage and Shipping Information

Storage 2-8°C. Avoid multiple freeze/thaw cycles.

Stability 3-6 months