

## 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; $\beta$ -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 μM CuSO4
Unit Definition	One unit will produce a $\Delta A425$ 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