Creative Enzymes®

Native Myrothecium verrucaria Bilirubin Oxidase

Cat. No. NATE-0094

Lot. No. (See product label)

Introduction

Description	In enzymology, a bilirubin oxidase (EC 1.3.3.5) is an enzyme that catalyzes the chemical reaction:2 bilirubin + O2↔ 2 biliverdin + 2 H2O. Thus, the two substRates of this enzyme are bilirubin and O2, whereas its two products are biliverdin and H2O. This enzyme belongs to the family of oxidoreductases, to be specific those acting on the CH-CH group of donor with oxygen as acceptor. This enzyme participates in porphyrin and chlorophyll metabolism.
Applications	Bilirubin oxidase is used to degrade bilirubin. Bilirubin oxidase, from Myrothecium verrucaria, may be used to determine free hemoglobin in icteric specimens. It also has potential application in dye effluent decolorization and is a potential treatment for neonatal jaundice.
Synonyms	bilirubin oxidase M-1; EC 1.3.3.5; 80619-01-8; Bilirubin:oxygen oxidoreductase; Bilirubin Oxidase

Product Information

Source	Myrothecium verrucaria
Form	lyophilized powder.
EC Number	EC 1.3.3.5
CAS No.	80619-01-8
Activity	15-65 units/mg protein
Unit Definition	One unit will oxidize 1.0 μmole of bilirubin per min at pH 8.4 at 37°C.

Storage and Shipping Information

Storage	−20°C