

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 One unit will oxidize 1.0 μmole of bilirubin per min at pH 8.4 at 37°C.

Definition

Storage and Shipping Information

Storage −20°C

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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