Creative Enzymes®

Native Bacillus subtilis Bilirubin oxidase

Cat. No. DIA-129

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	Useful for enzymatic determination of bilirubin and for eliminating the interference of bilirubin in diagnostic assays.
Synonyms	bilirubin oxidase M-1; bilirubin oxidase; EC 1.3.3.5; bilirubin: oxygen oxidoreductase

Product Information

Source	Bacillus subtilis
Form	Freeze dried powder
EC Number	EC 1.3.3.5
CAS No.	80619-01-8
Activity	> 1.2 U/mg
pH Stability	7.0-11.0 (37°C, 60 mins)
Optimum pH	6
Thermal stability	Stable at 45°C and below (pH 7.0, 30 mins)

Storage and Shipping Information

Storage	Store in tightly closed containers, desiccated, protected from light, at-20°C.