

Native Bacillus pumilus Bilirubin Oxidase/Laccase

Cat. No. NATE-1257

Lot. No. (See product label)

Introduction

In enzymology, a bilirubin oxidase (EC 1.3.3.5) is an enzyme that catalyzes the chemical reaction 2 Description

> 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.

Synonyms bilirubin oxidase M-1; EC 1.3.3.5; 80619-01-8; Bilirubin:oxygen oxidoreductase; Bilirubin Oxidase

Product Information

Source Bacillus pumilus

Form Lyophilized powder

Molecular

61 kDa

Weight

Purity ~ 90% (SDS PAGE)

Isoelectric

6.03

6.5

point

Optimum

pН

Thermal 25°C - 70°C

stability

Unit

One unit will oxidize 1.0 μ mole of bilirubin per minute at pH 8.4 at 37°C or 1.0 μ mole of syringaldizine per

1/1

Definition minute at pH 6.5 at 37 °C.

Storage and Shipping Information

at -20°C Storage

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