

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 $2 \text{bilirubin} + \text{O}_2 \leftrightarrow 2 \text{biliverdin} + 2 \text{H}_2\text{O}$. Thus, the two substrates of this enzyme are bilirubin and O_2 , whereas its two products are biliverdin and H_2O . 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.