

## 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  $\text{O}_2$ , whereas its two products are biliverdin and  $\text{H}_2\text{O}$ . 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.