Creative Enzymes
Diagnostic Enzymes

Bilirubin oxidase from Microorganism

Product Information

Cat#	NATE-1713
Abbr	BOD (Microorganism)
Similar	Bilirubin Oxidase
Source	Microorganism
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.
Form	Blue powder, lyophilized
Enzyme Commission Number	EC 1.3.3.5
Activity	>20U/mg
CAS No.	80619-01-8
Isoelectric point	5.2
pH Stability	7.5~10.5 (25℃, 18hr)
Michaelis Constant	1.2×10^-4 M(Bilirubin, pH 8.0)
Unit Definition	One unit will convert one micromole of bilirubin to biliverdin per min at pH 8.0 at 25℃.
Optimum pH	7.5
Optimum temperature	37°C
Thermal stability	< 50℃(pH 7.0, 30min)

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Storage	Store at -20°C.
Inhibitors	NaN3, KCN
Synonyms	bilirubin oxidase M-1; bilirubin oxidase; EC 1.3.3.5; bilirubin: oxygen oxidoreductase

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