Creative Enzymes
Diagnostic Enzymes

Native Bacillus fastidiosus Uricase

Product Information

Cat#	DIA-173
Similar	UO
Source	Bacillus fastidiosus
Description	The enzyme urate oxidase (UO), or uricase or factor-independent urate hydroxylase, absent in humans, catalyzes the oxidation of uric acid to 5-hydroxyisourate: Uric acid + O2 + H2O → 5-hydroxyisourate + H2O2 → allantoin + CO2
Form	Freeze dried powder
Activity	15 U/mg
CAS No.	9002-12-4
Unit Definition	One unit will oxidize one micromole of uric acid at pH8.5 at 25°C.
Storage	-20°C
Synonyms	urate oxidase; uric acid oxidase; uricase; uricase; urate: oxygen oxidoreductase; EC 1.7.3.3; uricase II; UO
Enzyme Commission Number	EC 1.7.3.3
pH Stability	5.5-10.0 (25°C for 20 hrs)
Optimum pH	7
Optimum temperature	37°C
Thermal stability	Stable at 50°C and below (pH 7.0, 15 mins)
Inhibitors	Ag+, Hg2+
Contaminants	Cholesterol oxidase < 0.005%; Catalase < 1%; Glucose oxidase < 0.005%
Abbr	UO (Bacillus fastidiosus)

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Alias	UO; uricase
Product Overview	Urate:oxygen oxidoreductase produced in microorganism has a molecular mass of approximately 34 kDa.
Appearance	White to off-white powder

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