

Native *Bacillus fastidiosus* Uricase

Product Information

Cat#	DIA-173
Similar	UO
Source	<i>Bacillus fastidiosus</i>
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 + O ₂ + H ₂ O → 5-hydroxyisourate + H ₂ O ₂ → allantoin + CO ₂
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 ⁺ , Hg ²⁺
Contaminants	Cholesterol oxidase < 0.005%; Catalase < 1%; Glucose oxidase < 0.005%
Abbr	UO (<i>Bacillus fastidiosus</i>)



Creative Enzymes

Diagnostic Enzymes

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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