Creative Enzymes®

Native Bacillus fastidiosus Uricase

Cat. No. DIA-173

Lot. No. (See product label)

Introduction

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
Synonyms	urate oxidase; uric acid oxidase; uricase; uricase; urate: oxygen oxidoreductase; EC 1.7.3.3; uricase II; UO

Product Information

Source	Bacillus fastidiosus
Appearance	White to off-white powder
Form	Freeze dried powder
EC Number	EC 1.7.3.3
CAS No.	9002-12-4
Activity	15 U/mg
Contaminants	Cholesterol oxidase < 0.005%; Catalase < 1%; Glucose oxidase < 0.005%
pH Stability	5.5-10.0 (25°C for 20 hrs)
Optimum pH	7
Thermal stability	Stable at 50°C and below (pH 7.0, 15 mins)
Optimum temperature	37°C
Inhibitors	Ag+, Hg2+
Unit Definition	One unit will oxidize one micromole of uric acid at pH8.5 at 25°C.

Storage and Shipping Information

Storage	-20°C