

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: $\text{Uric acid} + \text{O}_2 + \text{H}_2\text{O} \rightarrow 5\text{-hydroxyisourate} + \text{H}_2\text{O}_2 \rightarrow \text{allantoin} + \text{CO}_2$

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