

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