

Uricase from *Candida utilis*, Recombinant

Cat. No. DIA-404

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

Applications

Used in the enzymatic determination of uric acid.

Synonyms

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

Product Information

Species

Candida utilis

Source

Escherichia coli

Appearance

White to cream powder

EC Number

EC 1.7.3.3

CAS No.

9002-12-4

Molecular Weight

34kDa (SDS-PAGE)

Activity

> 6 U/mg

pH Stability

7.6 to 10.0

Optimum pH

8.5

Thermal stability

Stable at 55°C and below.

Optimum temperature

55°C

Unit Definition

One unit of activity is defined as the amount of enzyme that will transform of 1.0 micromole of substrate per minute at 25°C under standard assay method conditions.