Creative Enzymes®

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: Uric acid + O2 + H2O → 5-hydroxyisourate + H2O2 → allantoin + CO2
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.