

## **Uricase from E. coli, Recombinant**

Cat. No. DIA-415 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 $\rightarrow$ 5-hydroxyisourate +
	H2O2 → allantoin + CO2

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

## **Product Information**

Species	E. coli
Source	E. coli
Appearance	Light brownish lyophilizate
EC Number	EC 1.7.3.3
CAS No.	9002-12-4
Molecular Weight	ca. 90 kDa
Activity	> 4 U/mg lyophilizate
Contaminants	catalase < 1.0%
pH Stability	7.0-11.0
Optimum pH	8.5
Thermal stability	below 55°C
Optimum temperature	45°C
Michaelis Constant	1.1 x 10^-5 M (uric acid)
Structure	2 subunits of 35 kDa (SDS-PAGE)
Inhibitors	Hg2+, Ag+
Stabilizers	Citrate, sucrose
Unit Definition	One unit (U) is defined as the amount of enzyme which oxidizes 1 $\mu$ mol of uric acid per min at 25°C and pH 8.5.

## Storage and Shipping Information

Storage at -20°C

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Stability (liquid form) stable at 37°C for at least ten days Stability (nowder form) stable at 30°C at least

Stability

three weeks