

## Native Candida sp. Uricase

Cat. No. DIA-175

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** This enzyme is useful for enzymatic determination of uric acid in clinical analysis.

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

## **Product Information**

**Source** Candida sp.

Appearance White amorphous powder, lyophilized

**Form** Freeze dried powder

**EC Number** EC 1.7.3.3

*CAS No.* 9002-12-4

**Molecular** approx. 120 kDa

Weight

**Activity** Gradell 4.0U/mg-solid or more (containing approx.20% of stabilizers)

**Contaminants** Catalase < 1.0%

*Isoelectric* 5.4

point

**pH Stability** pH 7.0-11.0 (25°C, 20hr)

**Optimum pH** 8.5

Thermal stability

below 50°C (pH 8.5, 10min)

**Optimum** 40°C

temperature

*Michaelis* 2.5×10<sup>-5</sup>M (Uric acid)

Constant

**Structure** 4 subunits per molecule (Reactive SH groups are present in the enzyme molecule)

*Inhibitors* Heavy metal ions, cyanide, various urate analogs

**Stabilizers** Borate, EDTA, nonionic detergents

## Storage and Shipping Information

**Stability** Stable at-20°C for at least one year

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