

Native Bacillus sp. Uricase

Cat. No. DIA-276

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 Bacillus sp.

Appearance White amorphous powder, lyophilized

Molecular

approx.150,000

Weight

Activity Gradell 1.5U/mg-solid or more

Contaminants Catalase <1.0%

Isoelectric

4.7

point

pH Stability pH 6.0-9.5 (25°C, 20hr)

Optimum pH 8.5

Thermal

below 60°C (pH 8.0, 10min)

stability

Optimum

45°C

temperature

Michaelis Constant $1.36 \times 10^{-5}M$ (Uric acid)

Structure

4 subunits per molecule

Inhibitors

Ag+,Hg++

Stabilizers

Borate, EDTA, nonionic detergents

Unit

One unit causes the oxidation of one micromole of uric acid per minute under the conditions described

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Definition

below.

Storage and Shipping Information

Stability Stable at -20°C for at least 6 months

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