

## Uricase, Recombinant

Cat. No. DIA-294

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** Uricase can catalyze the enzymatic oxidation of uric acid to allantoin rapidly, so it is used to detect the amount of uric acid in the serum and urine.

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

### Product Information

**Appearance** White powder, lyophilized

**EC Number** EC 1.7.3.3

**CAS No.** 9002-12-4

**Molecular Weight** About 45kDa (SDS-PAGE detection)

**Purity** >90% (SDS-PAGE test)

**Activity** About 10U/mg

**Buffer** 20mM Tris, pH8.0

**Unit Definition** One unit will convert 1μmol uric acid to oxidize per min at pH 8.5 and at 37°C.

### Storage and Shipping Information

**Storage** 4°C, store at -20°C for long-term preservation.