

Uricase, Enzyme Activity

Catalog	Unit
TBP0043-1KU	1000 U
TBP0043-5KU	5000 U

Preparation and Specification

Appearance: White amorphous powder, lyophilized

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

Contaminant: Catalase $\leq 1.0\%$

Stabilizers: Borate, EDTA, nonionic detergents

Properties

Stability: Stable at -20°C for at least One year

Molecular weight: approx. 120,000

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

Isoelectric point: 5.4

Michaelis constant: $2.5 \times 10^{-5}\text{M}$ (Uric acid)

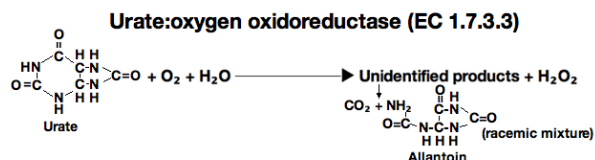
Inhibitors: Heavy metal ions, cyanide, various urate analogs

Optimum pH: 8.5

Optimum temperature: 40°C

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

Thermal stability: below 50°C (pH 8.5, 10min)



Applications

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

For research use only