Creative Enzymes
Diagnostic Enzymes

Native Candida sp. Uricase

Product Information

Cat#	DIA-175
Similar	UO
Source	Candida sp.
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
Form	Freeze dried powder
Activity	GradeII 4.0U/mg-solid or more (containing approx.20% of stabilizers)
CAS No.	9002-12-4
Isoelectric point	5.4
Synonyms	urate oxidase; uric acid oxidase; uricase; uricase; urate: oxygen oxidoreductase; EC 1.7.3.3; uricase II
Enzyme Commission Number	EC 1.7.3.3
pH Stability	pH 7.0-11.0 (25°C, 20hr)
Michaelis Constant	2.5×10??M (Uric acid)
Optimum pH	8.5
Optimum temperature	40°C
Thermal stability	below 50°C (pH 8.5, 10min)
Stability	Stable at-20°C for at least one year
Stabilizers	Borate, EDTA, nonionic detergents
Inhibitors	Heavy metal ions, cyanide,various urate analogs

Tel: 1-631-562-8517 1-516-512-3133
Email:info@creative-enzymes.com
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Creative Enzymes
Diagnostic Enzymes

Native Candida sp. Uricase

Contaminants	Catalase < 1.0%
Abbr	UO (Candida sp.)
Alias	UO; uricase
Applications	This enzyme is useful for enzymatic determination of uric acid in clinical analysis.
Appearance	White amorphous powder, lyophilized
Structure	4 subunits per molecule (Reactive SH groups are present in the enzyme molecule)
Molecular Weight	approx. 120 kDa

Tel: 1-631-562-8517 1-516-512-3133

Email:info@creative-enzymes.com

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA