

## ENZYMES

BY

SORACHIM

## Uricase from Bacillus sp.

UAO-211

## SPECIFICATIONS

Name	Urate: oxygen oxidoreductase
EC	1.7.3.3
Appearance	white amorphous powder lyophilized
Activity	Grade II, 1.5 U/mg-solid or more
Contaminants	Catalase $\leq$ 1.0%
Stabilizers	Borate, EDTA, nonionic detergents
Stability	Stable at -20°C for at least 12 months
Molecular weight	approx. 150,000
Structure	4 subunits per molecule
Isoelectric point	4.7
Michaelis constant	$1.36 \times 10^{-5}$ M (Uric acid)
Inhibitors	Ag <sup>+</sup> , Hg <sup>++</sup>
Optimum pH	8.5
Optimum temperature	45 °C
pH Stability	pH 6.0 - 9.5 (25°C, 20hr)
Thermal stability	below 60°C (pH 8.0, 10min)

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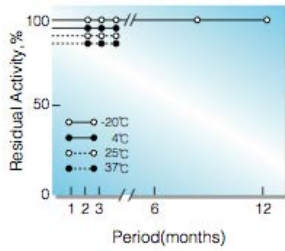


Fig.1. Stability (Powder form)  
(kept under dry conditions)

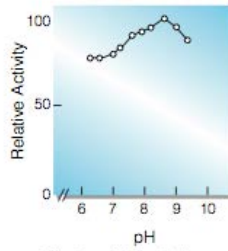


Fig.3. pH-Activity  
(37°C, in 50mM borate buffer)

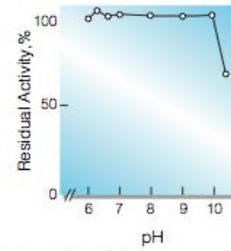


Fig.5. pH-Stability  
(25°C, 20hr-treatment with 50mM borate buffer)

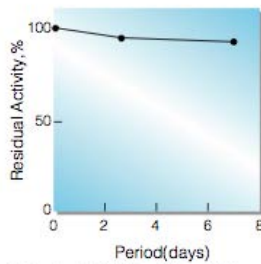


Fig.2. Stability (Liquid form)  
(40°C, in GOOD's buffer solution pH7.0)

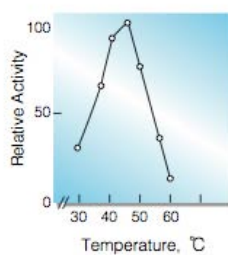


Fig.4. Temperature activity  
(5min-reaction in 50mM borate buffer, pH8.0)

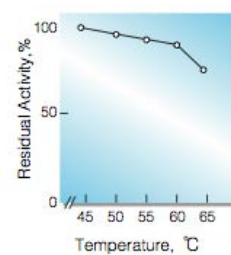


Fig.6. Thermal stability  
(10min-treatment with 50mM borate buffer, pH8.0)