Urease from Jack Bean

URH-201

SPECIFICATIONS

Name	Urea amidohydrolase
EC	3.5.1.5
Appearance	white amorphous powder lyophilized
Activity	Grade II, 100U/mg-solid or more
Contaminants	Asparaginase $< 2.0 \times 10^{-2}$ %
	Arginase $< 2.0 \times 10^{-3}$ %
	$NH4^+$ $< 5.0 \times 10^{-4}$ µg/U
Stabilizers	EDTA, glutathione, succinate, BSA
Stability	Stable at -20 °C for at least 12 months
Molecular weight	approx. 480 000
Isoelectric point	5.0 - 5.1
Michaelis constant	1.05×10^{-2} M (Urea)
Structure	8 active sites with SH-groups per mole of the enzyme
Inhibitors	Heavy metal ions (Ag^+ Hg^{2+} etc.)
Optimum pH	6.0
Optimum temperature	60 °C
pH Stability	pH 5.5 - 8.5 (30 °C, 17hr)
Thermal stability	below 50 °C, (pH 8.0, 60min)

PRODUCT CATALOGUE

V3-072014

ENZYMES BY SORACHIM

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SPECIFICATIONS

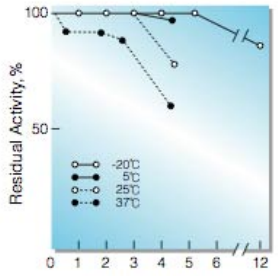

Fig.1. Stability (Powder form,Grade Ⅲ)
(kept under dry conditions)

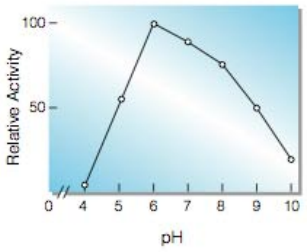

Fig.3. pH-Activity
(30℃ in 10mM buffer solution: pH3.0-9.0 Veronal-CH₃COONa-HCl; pH9.0-11.0, glycine-NaOH.)

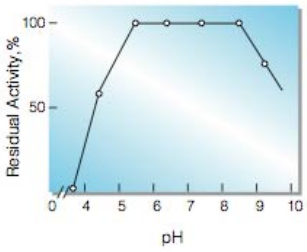

Fig.5. pH-Stability
(30℃ ,17hr-treatment with 10mM buffer solution: pH 3.0-9.0, Veronal-CH₃COONa-HCl; [pH9.0-11.0: glycine-NaOH

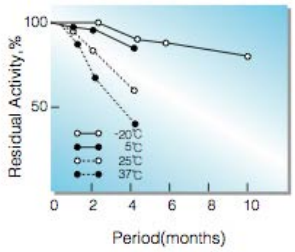

Fig.2. Stability (Powder form,Grade Ⅱ)
(kept under dry conditions)

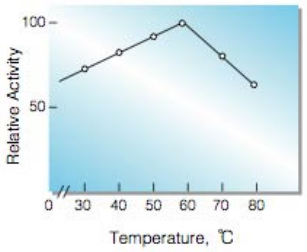

Fig.4. Temperature activity
(in 20mM phosphate buffer,pH7.0)

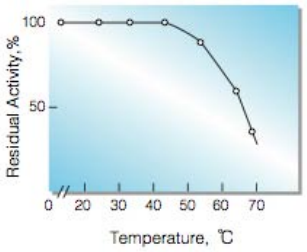

Fig.6. Thermal stability
(60min-treatment with 20mM phosphate buffer, pH8.0.)