

ENZYMES
BY

SORACHIM

Alkalophilic Proteinase from *Streptomyces* sp.

ALP-101

SPECIFICATIONS

Product name:	Alkaline protease
EC	3.4.21.-
Appearance	White amorphous powder lyophilized
Activity	Grade I, 20 U/mg-solid or more
Stabilizers	Ca ⁺⁺
Stability	Stable at - 20°C for at least 12 months
Molecular weight	approx. 50,000
Isoelectric point	8.7
Inhibitors	Diisopropyl fluorophosphate, EDTA
Optimum pH	> 12
Optimum temperature	60 °C
pH Stability	pH 5.0 - 11.5 (25 °C, 24hr)
Thermal stability	below 50°C (pH 8.3, 15 min)

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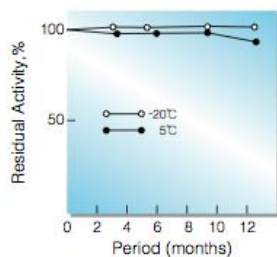


Fig. 1. Stability (Powder form)
(kept under dry conditions)

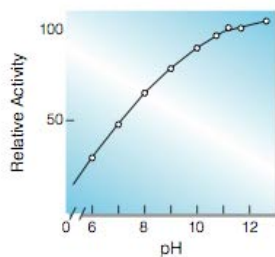


Fig. 2. pH-Activity
[30°C, 10min-reaction in the following
buffer solution: pH4.0-6.0, 20mM acetate;
pH7.0-9.0, 50mM Tris-HCl; pH9.5-12.0
10mM borate.]

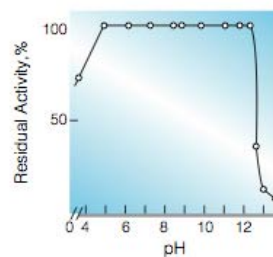


Fig. 4. pH-Stability
[25°C, 24hr-treatment with
the same buffer as shown
in Fig. 2.]

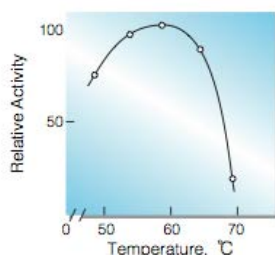


Fig. 3. Temperature activity
[60 min-reaction in 10mM borate
buffer, pH11.0]

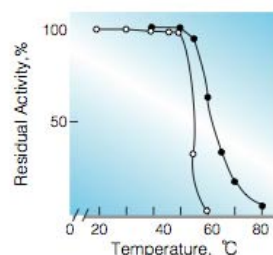


Fig. 5. Thermal stability
[15min-treatment with 10mM borate
buffer, pH8.3: ○, without
Ca++; ●, with 2.0mM Ca++]