

ENZYMES

BY

SORACHIM

Neutral Proteinase from Bacillus sp.

NEP-801

SPECIFICATIONS

Product name	Microbial Metalloproteinase
EC	3.4.24.4
Appearance	White amorphous powder or granules
Activity	Grade II, 1,000U/mg-solid or more
Contaminants	Other proteases: $\leq 2.0 \times 10^{-2}\%$
Stabilizers	Ca ²⁺
Stability	Stable at 2-8 °C for at least 12 months
Molecular weight	approx. 25,000 (SDS-PAGE)
Inhibitors	EDTA
Optimum pH	7.0 - 8.0
Optimum temperature	80°C
pH Stability	pH 6.0 - 9.0 (40°C, 30min.)
Thermal stability	below 70°C (pH 7.5, 10min)

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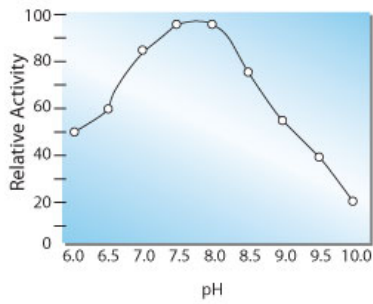


Fig.1. pH-Activity

(35°C in 50mM buffer solution:
pH6.0-7.5, phosphate buffer;
pH8.0-10.0, borate buffer)

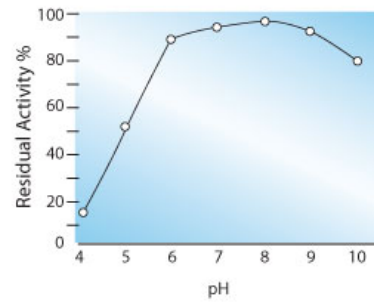


Fig.3. pH-Stability

(40°C, 30min-treatment with 30mM
buffer solution: Veronal-CH COONa
-HC containing 0.1M sodium chloride
and 1mM calcium acetate.)

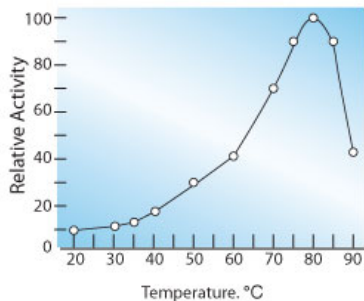


Fig.2. Temperature Activity

(in 10mM borate buffer, pH7.5)

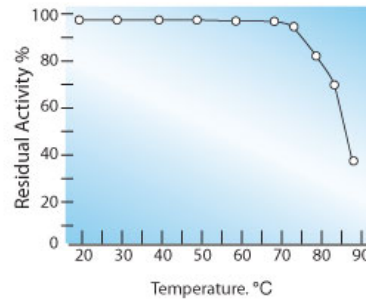


Fig.4. Thermal stability

(10mM-treatment with 10mM borate, pH7.5)