

ENZYMES

BY

SORACHIM

Alkaline Phosphatase from Microorganism

LPP-229

SPECIFICATIONS

Product name:	Orthophosphoric monoester phosphohydrolase (alkaline optimum)
EC	3.1.3.1
Appearance:	Transparent liquid
Activity:	Grade II, 30,000 U/ml or more
Contaminants:	Adenosine deaminase $\leq 1.0 \times 10^{-4}\%$, Phosphodiesterase $\leq 3.0 \times 10^{-3}\%$
Stability	Stable at 2-8 °C for at least 12 months
Molecular weight	approx. 104,000
Optimum pH	9.5
Optimum temperature	> 60 °C
pH Stability	pH 5.5 - 10.4 (25 °C, 16hr)
Thermal stability	below 65 °C (pH 7.0, 60min)

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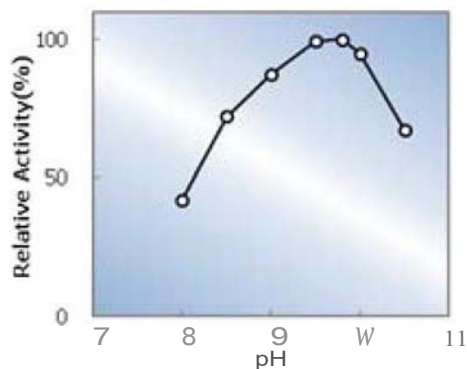


Fig.1 pH-Activity
in 1M Diethanolamine buffer, pH 8-10.5

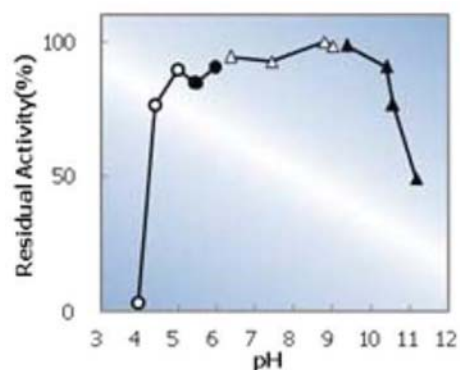


Fig.3 pH-Stability

25°C, 16hr, 0.1M buffer pH 4-6
dimethylglutaric acid-NaOH,
pH 6-8 K-phosphate,
pH 8-9 Tris-HCl,
pH 9-10 glycine-NaOH.

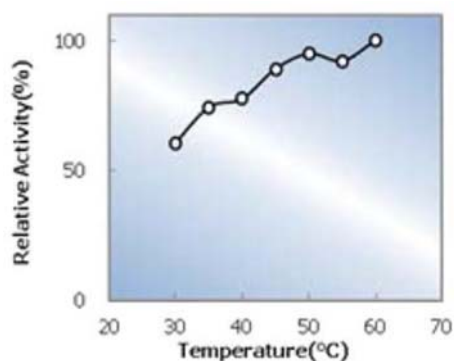


Fig.2 Temperature activity
In 1M Diethanolamine buffer, pH 10.25

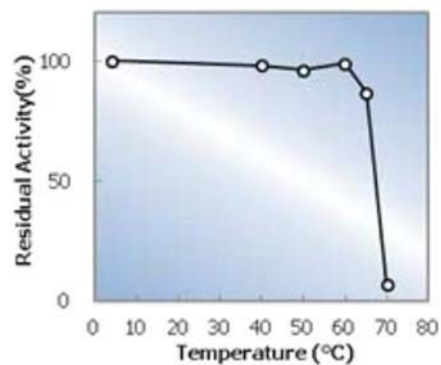


Fig.4 Thermal stability
15min, 50mM K-phosphate buffer
pH 7.0