

ENZYMES

BY

SORACHIM

Peroxidase from Horseradish

PEO-701

SPECIFICATIONS

Product name	Donor:hydrogen-peroxidase oxidoreductase
EC	1.11.1.7
Appearance	Reddish brown amorphous powder lyophilized
Activity	Grade VII, 60 Purpurogallin U/mg-solid or more (RZ \geq 0.6)
Stability	Stable at -20°C for at least 12 months
Molecular weight	approx. 40,000
Structure	Glycoprotein with one mole of protohaemin IX
Inhibitors	Cyanide, sulfide, fluoride, azide
Optimum pH	8.0
pH Stability	pH 5.0 – 10.0
Thermal stability	below 60 $^{\circ}\text{C}$

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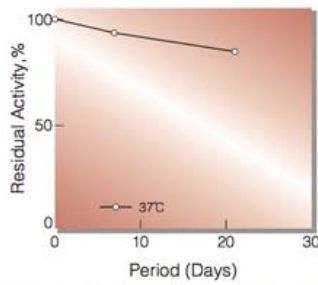


Fig.1. Stability (Powder form)
(Kept under dry conditions)

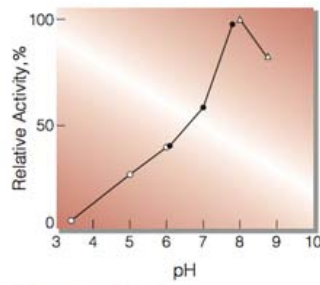


Fig.2. pH-Activity
[37°C, in 0.1M buffer solution;
pH 3-3.6, Acetate; pH 6-7.5,
K-Phosphate; pH 7.5-9, Tris-HCl]

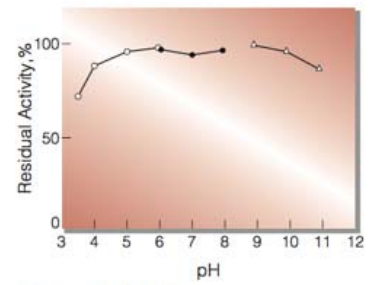


Fig.3. pH-Stability
[25°C, 20hr-treatment with 0.1M
buffer solution; pH 3-6, Acetate;
pH 6-8, K-Phosphate; pH 9-11,
Glycine-NaOH]

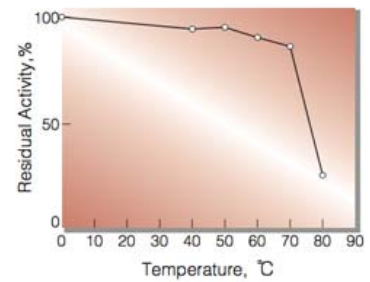


Fig.4. Thermal stability
[10 min-treatment with 0.05M
K-Phosphate buffer, pH6.0
Enzyme concentration : 2 U/ml]

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