

ENZYMES

BY

SORACHIM

Peroxidase from Horseradish

PEO-301

SPECIFICATIONS

Product name	Donor:hydrogen-peroxidase oxidoreductase
EC	1.11.1.7
Appearance	Reddish brown amorphous powder lyophilized
Activity	Grade III, 110 Purpurogallin U/mg-solid or more (RZ $\geq$ 2.0, containing approx. 30% of stabilizers)
Contaminant	Phosphatase $\leq 1.0 \times 10^{-3}$ %
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	6.0—7.0
Optimum temperature	45 $^{\circ}\text{C}$
pH Stability	pH 5.0—10.0 (25 $^{\circ}\text{C}$, 20hr)
Thermal stability	below 50 $^{\circ}\text{C}$ (pH 6.0, 10min)

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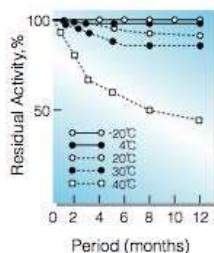


Fig.1. Stability (Powder form)
(kept under dry conditions)

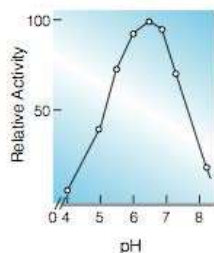


Fig.3. pH-Activity
(20°C, 20sec-reaction in 0.1M buffer solution: pH4.0-6.0, acetate; pH6.0-8.0, phosphate)

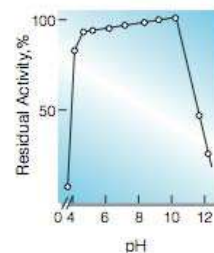


Fig.5. pH-Stability
(25°C, 20hr-treatment with 50mM buffer solution: pH3.5-6.0, acetate; pH6.0-8.0, phosphate; pH9.0-11.0 borate)

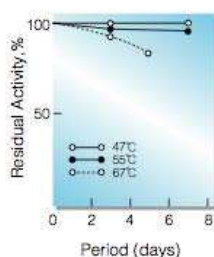


Fig.2. Stability (Powder form)
(kept under dry conditions)

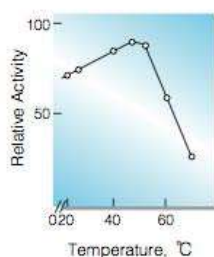


Fig.4. Temperature activity
(20sec-reaction in 0.1M phosphate buffer, pH6.0)

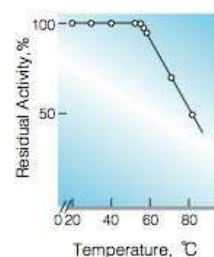


Fig.6. Thermal stability
(10min-treatment with 50mM phosphate buffer, pH6.0)