

ENZYMES

Peroxidase RZ 2.0

ORIGIN Ex horseradish

CAT# PERO-70-6915

EC# 1.11.1.7

SPECIFICATIONS

Appearance Reddish-brown, Lyophilised powder
Activity >200 PPG U/mg powder at 20°C
RZ >2.0

APPLICATION

Useful for the enzymatic determination of hydrogen peroxide.

UNIT DEFINITION

One unit of activity is defined as the amount of enzyme that will catalyse the production of 1mg of purpurogallin from pyrogallol in 20 seconds at 20°C under standard assay method conditions.

ASSAY PRINCIPLE

Peroxidase (POD) catalyses the following reaction:



CHARACTERISTICS

Molecular Weight (SDS Page):	40kDa (gel filtration)
Isoelectric point:	7.2
Optimum pH (Fig. 1):	6.0 to 6.5
Optimum Temperature (Fig. 2):	40°C
pH Stability (Fig. 3):	5.0 to 10.0 (25°C for 24 hours)
Thermal Stability (Fig. 4):	Stable for 10 minutes at pH 7.0

All characteristics determined by the Guaiacol Assay Procedure at 20°C, pH 6.0.

FIG. 1: OPTIMUM pH

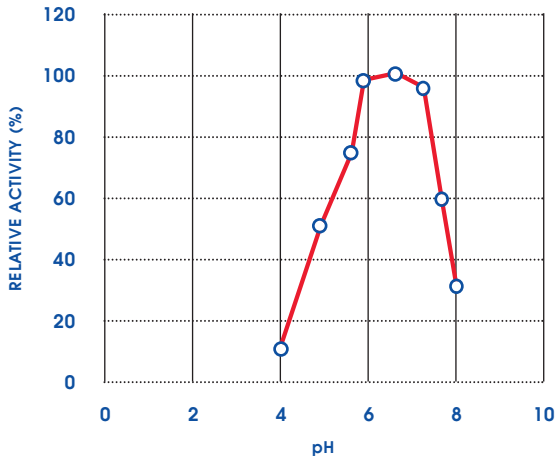


FIG. 2: OPTIMUM TEMPERATURE

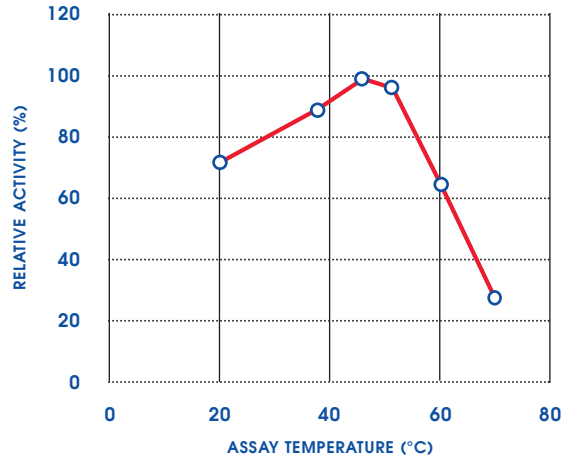


FIG. 3: pH STABILITY

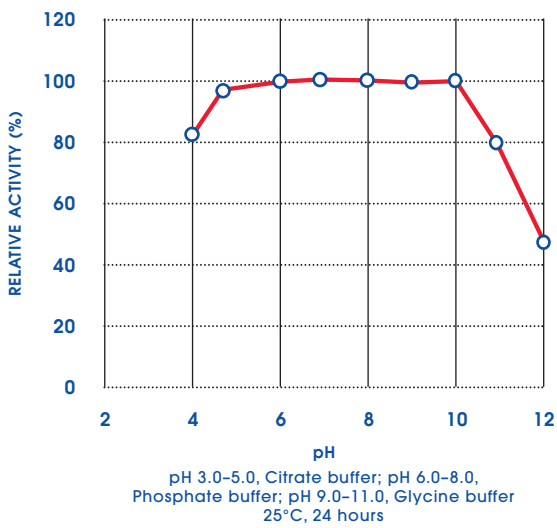


FIG. 4: THERMAL STABILITY OF POD

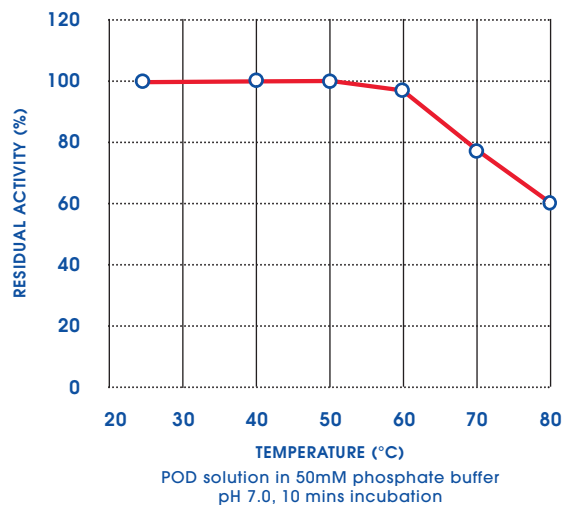


FIG. 5: LIQUID STABILITY (4°C & 35°C)

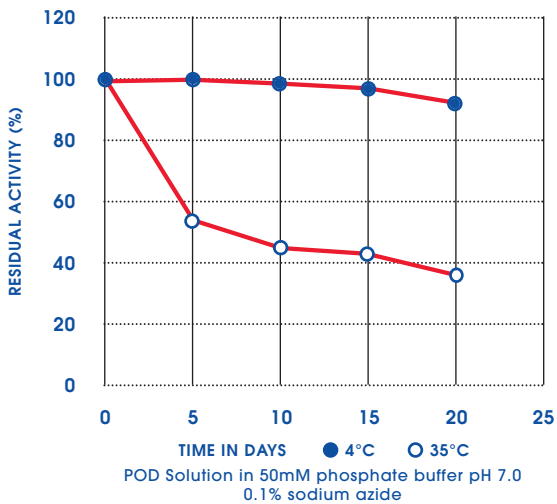
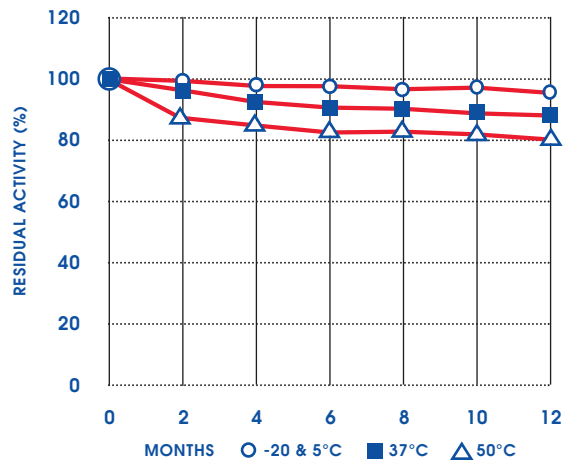


FIG. 6: DRY POWDER STABILITY (-20 & 5°C, 37°C & 50°C)



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