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Proteinase-K

Cat: MPRO-0100/1/2

Size: 250/500mg, 1g.

Application: Isolation of plasmid/genomic DNA. Inactivation of DNases, RNases. Degrade proteins when isolating preparations of DNA/RNA.

Recommended Storage Buffer: 1-4 mM CaCl2, 20-50mM Tris-HCl pH 8.0, 50% glycerol.

Activity: Active in solutions of Triton™-X, SDS, Urea, Tween-20, Guanidine HCl

Description: Proteinase K is produced by the fungus *Tritirachiuim album.* It is a serine protease that exhibits broad substrate specificity on denatured as well as native proteins over a wide range of temperature and pH values. Proteinase K is an endolytic protease which preferentially cleaves peptide bonds at the carboxylic side of aliphatic, aromatic, or hydrophobic amino acids.

Store at: -20°C

pH profile: Activity at pH 4-12 with optimum activity between 7.5-8

Temperature Profile: Optimum activity at 37°C, with >80% activity at 30°C-60°C. Inactivation occurs by incubation ≥ 95 °C for 10 minutes.

Purity: >80%

DNase: <0.0005 units/mg

RNase: <0.0005 units/mg