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17 Musick, Irvine, CA 92618 | Toll Free: (877) 780. 6200 | Tel: (949) 380. 9966 | Fax: (949) 380. 9955

# ProtiLYSE Plus™ (Proteinase-K 2mg/ml in SDS Solution)

**Cat**: MPLL-1200/1/2

**Volume**: 7.5ml, 5x7.5ml, 75 ml

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

**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**: 2-8°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