

PRODUCT INFORMATION

Proteinase K Biotechnology Grade (0706, E195)

Proteinase K is a key enzyme used for the purification of nucleic acids. The material used for these purifications must be of high quality, and free of nuclease contamination. When used to purify nucleic acids from tissues, it must also possess high specific activity and solubility.

AMRESCO Biotechnology Grade Proteinase K is carefully purified for use in molecular biology procedures. With a specific activity of > 30 units/mg (50%-200% higher than other suppliers) and very high solubility, AMRESCO Proteinase K can be prepared in concentrated solutions.

Proteinase K is also available in solution form. AMRESCO Proteinase K solution is a stable, 20 mg/ml solution of AMRESCO Proteinase K in an exclusive buffer which ensures that the enzyme retains full stability and activity for more than one year at 4°C. Because stock solutions of Proteinase K, when stored at -20°C, need to be repeatedly frozen and thawed, the natural degradation of the enzyme can be accelerated. Our 4°C storage eliminates this freezing and thawing. Finally, our manufacturing process allows us to guarantee that the solution is completely free of nucleases.

ASSAY

Specific activity	>30 U/mg
DNase, RNase activity	< 0.001
Stability (powder, 4°C)	>12 months
Stability (solution, 4°C)	>12 months
Molecular weight	18,500 + 500
Source	Tritirachium album

ORDERING INFORMATION:

	Code	Size
Powder	0706	100 mg
		500 mg
		1 g
Solution	E195	5 ml
		2 x 5 ml
		25 ml

References:

- Ebeling, W., et al., *European Journal of Biotechnology*, 47, 91 (1974).
Maniatis, T., et al., *Molecular Cloning - A laboratory Manual*, Cold Spring Harbor Laboratory, 2nd edition, 1989.

