

Proteinase K

Proteinase K is a broad spectrum serine protease useful for general digestion of proteins. It is active in presence of SDS, EDTA or Urea and has a pH - optimum of 7.5 - 10.5.

Application: Degradation of proteins during DNA and RNA isolation.

Unit definition: One unit of proteinase K produces 1 μ mole of Folin-positive amino acid in 1 min at 37° C. Supplied as lyophilized powder.

Store at -20°C

Ordering Information:

Product	Size	Cat #
Proteinase K	25 mg	105973
	100 mg	105972
	1 g	105971

Lysozyme (Low nuclease activity)

Description: The enzyme is known to hydrolyze β -1,4 linkages between N-acetyl muramic acid and N-acetyl glucosamine in the cell wall of many microorganisms.

The cell lytic activity is 40,000 - 50,000 U/mg. Protein purity as tested by SDS gel electrophoresis is > 98%, M.W. 14,000.

Unit Definition: One unit will produce a ΔA_{450} of 0.001 per min at pH 6.24 at 25°C, using a suspension of *Micrococcus lysodeikticus* as substrate, in a 2.6 ml reaction mixture (1 cm light path), unless otherwise specified.

Application: The enzyme is useful for lysing gram positive and gram negative bacteria for subsequent isolation of nucleic acid.

Store at - 20°C

Ordering Information:

Product	Size	Cat #
Lysozyme	500 mg	105253
	5 g	105252

Agarase

Description: Agarase digests agarose by cleaving the agarose sub units to neoagaro-oligosaccharides. The carbohydrate by-products of the digestion do not interfere with subsequent restriction endonuclease digestion, ligation or transformation of DNA.

Unit Definition: One unit is defined as the amount of enzyme required to digest 200 μ l of molten 1% LMP agarose in 1 hour at 42°C.

Application: Purifying DNA or RNA from low melting agarose (LMP).

Assay buffer: (1X) 10 mM Bis-Tris-HCl (pH6.5), 1 mM EDTA.

Buffer supplied at **10X** concentration.

Storage buffer: 50 mM Bis-Tris-HCl (pH 6.5), 1 mM EDTA and 50% glycerol.

Store at : -20°C

Ordering Information:

Product	Size	Cat #
Agarase	50 U	105893