

Recombinant Lysostaphin

Catalog No.	CRL309A CRL309B CRL309C	Quantity:	1.0 mg 5.0 mg 10 mg
Alternate Names:	Glycyl-glycine endopeptidase		
Description:	Lysostaphin, an endopeptidase which is capable of cleaving the cross-linking pentaglycine bridges in the cell wall of <i>Staphylococci</i> , is an extremely potent anti-staphylococcal agent. Lysostaphin is used as a research and diagnostic tool. Because it lyses staphylococci efficiently, it is widely used when preparing staphylococcal DNA or other cellular components for genetic and biochemical studies, and for the preparation of protoplasts for transformation.		
Source:	<i>E. coli</i>		
Molecular Weight:	~26.9 kDa		
Formulation:	Lyophilized from a sterile filtered solution without additives.		
Purity:	98.4% as determined by RP-HPLC.		
Protein Determination:	Protein quantitation was assessed by two independent methods. 1. UV spectroscopy at 280 nm using the absorbency value of 2.02 as the extinction coefficient for a 0.1% (1 mg/mL) solution. This value is calculated using the PC GENE computer analysis program of protein sequences (Intelligenetics). 2. Analysis by RP-HPLC, using a calibrated solution of lysostaphin as a reference standard.		
Biological Activity:	Determined by the decrease in turbidity of a suspension of heat-killed <i>Staphylococcus aureus</i> at pH 8.0, 30 °C.		
Specific Activity:	4,783 U/mg		
Application Notes:	Lysostaphin has optimal stability in the range of pH 4.5, and optimal activity in the range of pH 8.0. Recommended stock solution: 10 mg/mL lysostaphin in 20 mM sodium acetate, pH 4.5. Recommended reaction buffer: 200 mM Tris-HCl pH 8.0.		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute in 20 mM sodium acetate, pH 4.5. After complete solubilization of the protein, it can be further diluted into other aqueous solutions.		
Storage & Stability:	Upon receipt, store desiccated at -20 °C for retention of full activity. Store reconstituted product in working aliquots at -20 °C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.