

Recombinant Lysostaphin

Cat. No. Lysostaphin-90 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Lysostaphin, an endopeptidase specific for the cell wall peptidoglycan of staphylococci, 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. Preparation and analysis of bacterial DNA has become a powerful tool used by clinical and other microbiologists in epidemiological studies aimed at tracing sources of infection or bacterial contamination.
Source	E.coli
Physical Appearance	Sterile Filtered lyophilized powder.
Purity	96.9% as determined by RP-HPLC.
Formulation	The protein was lyophilized without any additives.
Solubility	It is recommended to reconstitute the lyophilized Lysostaphin in 20 mM sodium acetate, pH 4.5, which can then be further diluted to other aqueous solutions.
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 is measured with a defined activity of 4,000 U/mg.
Specific Activity	Determined to be 4,243 units/mg.

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Protein content

Protein quantitation was carried out 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% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis RP-HPLC, using a calibrated solution of Lysostaphin as a Reference Standard.

Stability

Lysostaphin although stable at 4°C for 6 months, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

GENE INFORMATION**Synonyms**

EC 3.4.24.75; Glycyl-glycine endopeptidase; Lysostaphin; glycyl-glycine endopeptidase.

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