BioVendor Research Products

BioVendor Laboratory Medicine, Inc.

Recombinant Lysostaphin

Product Data Sheet

Cat. No.:	RP1792690001	RP1792690005	RP1792690010
	1mg	5mg	10mg

Description:
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:
Escherichia Coli.

Physical Appearance:
Sterile Filtered lyophilized powder.

Formulation:
The protein was lyophilized without any additives.

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

Solubility:
It is recommended to reconstitute the lyophilized Lysostaphin in 20mM sodium acetate, pH 4.5, which can then be further diluted to other aqueous solutions.

Purity:
98.4% as determined by RP-HPLC.

Biological Activity:
Determined by the decrease in turbidity of a suspension of heat-killed Staphylococcus aureus at pH8.0, 30°C.

Specific Activity:
Determined to be 4,243 units/mg.

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.

Usage:
BioVendor's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticide products, food additives or household chemicals.