

Product: Lysostaphin, recombinant
Catalog #: 12-4310
Amount: 1 mg

DESCRIPTION: Recombinant Lysostaphin (rLysostaphin)
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: *Bacillus sphaericus*
PURITY: > 93%, as determined by:
(a) Analysis by RP-HPLC and anion-exchange FPLC
(b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel

ENDOTOXIN: Less than 0.1 ng/μg (IEU/μg) of rLysostaphin
DIMERS & AGGREGATES: Less than 1% as determined by silver stained SDS-PAGE gel analysis
PROTEIN CONTENT: Protein quantitation was carried out by 2 independent methods:
- UV spectroscopy at 280 nm using the absorbency value of 2.02 as the extinction coefficient for a 0.1% (1mg/ml) solution. coefficient for a 0.1% (1mg/ml) solution. computer analysis program of protein sequences
- Analysis by RP-HPLC, using a standard solution of Lysostaphin as a Reference Standard

FORM: Purified, 20mM sodium acetate, pH 4.5
STORAGE: -20°C (aliquot), avoid freezing and thawing cycles
BIOLOGICAL ACTIVITY: rLysostaphin is fully biologically active when compared to standard. Determined by the decrease in turbidity of a suspension of heat-killed *Staphylococcus aureus* at pH8.0, 30°C. Specific activity is measured with a defined activity of 4,000 U/mg.

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