

Product Data Sheet

Cat # RP-358

Recombinant Lysostaphin

**Size:** 1 mg

**Source:** *Bacillus sphaericus* 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. The protein contains 20mM sodium acetate, pH 4.5.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY.

RP-358                      120507P

**Applications and Suggested Dilutions:** Lysostaphin although stable at 4°C for 6 months, should be stored desiccated below -18°C. **Please prevent freeze-thaw cycles.** Greater than 93.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** Protein is supplied in 20mM sodium acetate buffer, pH 4.2 or lyophilized in the same buffer. If supplied in powder then reconstitute it in 20mM sodium acetate buffer, pH 4.2 and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

**Biological Activity:** 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.

**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.

Alpha Diagnostic Intl Inc., 6203 Woodlake Center Dr, S an Antonio, T X 7 8 24 4 , U S A;

**India Contact:**

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400 Fax: +91-11-42208444 Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com) Website: [www.lifetechindia.com](http://www.lifetechindia.com)