

## Lysostaphin - Purified

**Catalog No.:** AR10477PU-S

**Quantity:** 1 mg

**Uniprot ID:** [P10547](#)

**NCBI:** [1286](#)

**Source:** E. coli

**Format:** **State:** Liquid sterile filtered lyophilized powder without any additives

**Purity:** >96.5% as determined by RP-HPLC

**Reconstitution:** Restore in 20mM Sodium Acetate, pH 4.5, which can then be further diluted to other aqueous solutions.

**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.

**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.

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

**Enzymatic Activity:** Determined to be 4,135 units/mg.

**Specific Activity:** Measured with a defined activity of 4,000 U/mg.

**Storage:** Prior to reconstitution store at 2-8°C for one month or desiccated below -18°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.