

Lysostaphin

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. The Mw of lysostaphin is 26,921 (Recsei et al, PNAS 1987). Lysostaphin has optimal stability in the range of pH 4.5, and optimal activity in the range of pH 8. For a stock solution it is recommended to work with 10mg/ml lysostaphin in 10mM sodium acetate pH 4.5. For a reaction buffer it is recommended to work with 200mM Tris-HCl pH 8.

Catalog #: ENPS-276

For research use only.

Synonyms: Lysostaphin, EC 3.4.24.75, Glycyl-glycine endopeptidase.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered lyophilized powder.

Purity: 96.5% as determined by RP-HPLC.

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.

Usage:

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

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.

Biological Activity:

Determined by the decrease in turbidity of a suspension of heat-killed Staphylococcus aureus at pH 8.0, 30°C.

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