Recombinant Lysostaphin

L755639

Storage temperature: -20℃.

Introduction

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.

Recombinant Lysostaphin is a highly purified preparation of recombinant lysostaphin, and is an essential tool for studying the epidemiology and molecular genetics of staphylococci.

Activity assay: Determined by the decrease in turbidity of a suspension of heat-killed Staphylococcus aureus 8325-4 at pH 8.0, 30°C. Specific activity is measured relative to an lysostaphin standard with a defined activity of 4,000 U/mg.

Storage conditions:

Long-term: Store in sealed container with desiccant at -20°C.

Solution: Stable for at least 6 months when stored at 4°C as 10 mg/ml solution in 20 mM sodium acetate, pH 4.5, in a polypropylene container.

Method of analysis: Reverse phase HPLC monitored at 210 nm.

Peptide purity: >90% (reverse phase HPLC).

mg protein/mg solid: >0.9 (Absorbance at 280 nm; extinction coefficient = 2.02 AU/mg/ml).

Additives: None.

Specific activity: >3,000 units/mg.

Physical form: Lyophilized powder.

Shelf life: <1% loss of activity per year, when stored dry at -80°C.