

Active Native Staphylococcus staphylyticus Lysostaphin

Cat. No. Lysostaphin-91S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Lysostaphin was purified from Staphylococcus staphylyticus. Protein 50-70 % by biuret.
Species	Staphylococcus staphylyticus
Source	Staphylococcus Staphylyticus
Description	Lysostaphin is a lytic enzyme isolated from a bacterial culture of Staphylococcus staphylyticus, which lyses Staphylococcus species, including S. aureus. Lysostaphin has hexosaminidase activity (specific for the glucosaminyl-muramic acid bond of the bacterial carbohydrate backbone, but does not react with S. aureus), amidase activity, and endopeptidase activity, which cleaves polyglycine cross-links in the cellular wall of Staphylococcus species.
Form	lyophilized powder
Bio-activity	≥500 units/mg protein
Molecular Mass	~25 kDa
Unit Definition	One unit will reduce the turbidity (A620) of a suspension of Staphylococcus aureus cells from 0.250 to 0.125 in 10 min at pH 7.5 at 37°C in a 6.0 ml reaction mixture. pH Optimum for activity: ~7.5.
Storage	Store the product at –20 °C. When stored at –20 °C, the enzyme retains activity for at

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least 3 years.

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