

# Active Native Staphylococcus staphylyticus Lysostaphin

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Native Lysostaphin was purified from Staphylococcus staphylyticus. Protein 50-70 % by biuret.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Staphylococcus staphylyticus                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | Staphylococcus Staphylyticus                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>Lysostaphin is a lytic enzyme isolated from a bacterial culture of Staphylococcus staphylyticus, which lyses Staphylococcus species, including S. aureus.</p> <p>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.</p> |
| <b>Form</b>             | lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Bio-activity</b>     | ≥500 units/mg protein                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | ~25 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Unit Definition</b>  | 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.                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | 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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