

Lysozyme (20 mg/ml)

Catalog No. 40111S: 1 mL

Catalog No. 40111L: 5 mL

Description

Lysozyme is an enzyme of 14.3 kDa (129 amino acids) with an isoelectric point of 10.7, existing in a wide variety of organisms and playing an important immunity role. Lysozymes can be classified into three types: c-type (chicken type), g-type (goose type), and i-type (invertebrate type).

Lysozyme is a glycosidase that can hydrolyze the $\beta(1-4)$ linkages between N-acetylmuramic acid and N-acetyl-D-glucosamine in the membranes of peptidoglycan, especially in Gram-positive bacteria. The peptidoglycan forms a layer outside to protect bacteria and also keep the bacteria shape. Lysozyme is characterized by the ability to break down the bacterial cell wall, improve genomic DNA and plasmid extraction, protein extraction, and inclusion body purification. Lysozyme from chicken egg whites has a higher heat tolerance than other sources, making it more effective for the lysis of gram-positive bacteria. It also improves the lysis of gram-negative bacteria.

Features

- Ready-to-use solution format
- Optimal activity in a pH range of 6.0-9.0.

Applications

- Genomic DNA and plasmid extraction
- Protein purification from inclusion bodies
- Chitin hydrolysis
- Degradation of bacterial cell wall

Specification

Concentration

20 mg/ml

Storage Buffer

50 mM Tris-HCl (pH 7.5), 0.1 M NaCl, 0.1 mM EDTA, 50% Glycerol

Storage Condition

Store at -20°C. Stable up to 12 months.

Molecular Weight

14.3 kDa

Source

Chicken egg white

Inhibitors

SDS, ethanol, isopropanol, N-acetyl-D-glucosamine, imidazole, indole derivatives, oxidizing agents

Component

Catalog No.	40111S	40111L
Lysozyme (20 mg/ml)	1 ml	5 ml

Quality Control

Reagent passed stringent functional quality test.

Product Use Limitation




This product is developed and sold for research purposes and *in vitro* use only. Please refer to biodynamy.com for Material Safety Data Sheet of the product.

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