



45822

**Lysozyme (3x cryst) ex. Egg white (Muramidase)
for molecular biology, 15000U/mg powder**

Part B

CAS : 12650-88-3

Specifications	
Appearance (Colour)	White
Appearance (Form)	Crystalline powder
Solubility (Turbidity) 10% aq. solution	Clear
Solubility (Colour) 10% aq. solution	Colourless
Chloride (Cl)	max. 3.5%
Activity	min. 15000 units/mg powder
Nitrogen (N)	~17.5%
Water (KF)	max. 5%
Unit Definition	One unit of Lysozyme will produce a ?A of 0.001 per minute at 450 nm at pH 6.24 at 25 °C using a suspension of Micrococcus lysodeikticus as substrate in a 2.6 mL reaction mixture.
Enzyme solution for activity determination	Prepared in 0.1 M potassium phosphate buffer, pH 7.0.
Not for medicinal use	

Other Information

Application

Lysozyme is an enzyme characterized by the ability to break down the bacterial cell wall to improve protein or nucleic acid extraction efficiency.

Lysozymes (muramidases) are a family of enzymes with antimicrobial activity characterized by the ability to damage the cell wall of bacteria. The enzyme acts by catalyzing the hydrolysis of 1,4-beta-linkages between N-acetylmuramic acid and N-acetyl-D-glucosamine residues in peptidoglycans and between the N-acetyl-D-glucosamine residues in chitodextrins. Although hen egg white lysozyme is most effective for the lysis of gram-positive bacteria, it also facilitates the lysis of gram-negative bacteria such as Salmonella and Shigella. The lysis of E. coli is especially improved by the addition of both lysozyme and a nucleases such as DNase I.

General Information

Storage	-20 °C (Blue/Dry Ice)
Shelf Life	60 Months
IMDG Identification	Not Regulated for Transport (Non-Haz)
HSN Code	
1 Gms	35079099 (GST 18%)
25 Gms	35079099 (GST 18%)
5 Gms	35079099 (GST 18%)

Available Packages

1 Gms
5 Gms
25 Gms

Disclaimer

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608-B, Satellite Gazebo, Andheri Ghatkopar Link Road, Chakala, Andheri (E), Mumbai - 400 099, Maharashtra, India. Telephone: +91-22-4268 5800, Email: info@srchem.com, website www.srchem.com