

Manual

Lysozyme

Enzyme for lysis of Gram-negative and Gram-positive bacteria. Concentration 10 mg/ml (400 U/ μ l).

catalog #	size
1005-10	1 ml
1005-50	5 x 1 ml

For research use only.

Guarantee

A&A Biotechnology provides guarantee on this product.
The company does not guarantee correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components



Description

Lysozyme (EC 3.2.1.17) (Muramidase, G 1-Globulin) is an enzyme with a molecular weight of 14.7 kDa purified from egg white.

Lysozyme is a glycoside hydrolase that damages the bacterial peptidoglycan cell wall by catalysing a hydrolysis of 1.4-beta-linkages between N-acetylmuramic acid and N-acetyl-D-glucosamine.

Application

- efficient lysis of Gram-negative and Gram-positive bacteria cell wall

Contents

	1005-10	1005-50	storage
Lysozyme	1 ml	5 x 1 ml	-20 °C
storage buffer: 25 mM sodium acetate, pH 5.5, 50% glycerol (v/v)			

Unit definition

1 U of lysozyme will reduce turbidity $\Delta A_{450}=0.001$ of a suspension of *Micrococcus lysodeikticus* cells in 1 min at pH 6.2 at 25 °C in 2.3 ml of reaction mixture.

References

- Jolles, P. *Angew. Chem. Int. Ed. Engl.* 8, 227-239, (1969)
- Rupley, J.A. *Biochim. Biophys. Acta* 83, 245-255, (1964)
- Holler, H., et al. *Biochemistry* 14, 2377-2385, (1975)



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