

User Manual

Version 2.0

Product name: T4 Lysozyme

Cat #: T4LY-100, T4LY-200, T4LY-OEM

Description:

Bacteriophage T4 Lysozyme breaks down bacterial cell walls. The enzyme attacks the peptidoglycans in the cell walls of bacteria and hydrolyzes the β -1,4 linkages between N-acetylmuramic acid and N-acetylglucosamine. Specific activity of T4 lysozyme is significantly greater than egg white lysozyme when assayed with *Micrococcus lysodeikticus* and *Escherichia coli*.

Application:

- Bacterial lysis for nucleic acid extraction
- Bacterial lysis for recombinant protein extraction

Source:

A recombinant *E. coli* strain carrying the cloned bacteriophage T4 lysozyme gene.

Unit Definition:

One unit of T4 lysozyme produces a decrease in A_{350} of 0.008 per second at 23°C with a 0.5 mg/ml suspension of lyophilized *M. lysodeikticus* in 0.02 M phosphate buffer (pH 6.7).

Recommended Storage Condition: -20°C

Reference:

Tsugita, A., and Inouye, M. Purification of Bacteriophage T4 Lysozyme. *The Journal of Biological Chemistry*, 243, 391-397. (1968)