T4 Lysozyme

T1509550

Storage temperature: -20℃.Avoid freeze/thaw cycle.

Introduction

Bacteriophage T4 Lysozyme breaks down bacterial cell walls. The enzyme attacks the peptidoglycans in the cell walls of bacteria and hydrolyzes the ß-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 E. coli.

Protein Purity: ≥95% (SDS-PAGE).

Storage Buffer: 20 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1mM EDTA, 50% Glycerol, pH 8.0.

Activity: 200 µl reaction in 50 mM Tris-HCl pH 8.0 buffer containing a Micrococcus lysodeikticus suspension and 1µg of T4 Lysozyme (E. coli) incubated for 20 minutes at 25°C results in a decrease of ≥0.05 in turbidity as determined by OD_{450}.

Applications

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.