



Lysobac™ is a breakthrough for bacterial cell lysis and can be used in diagnostic applications, bioprocessing and life science research. Lysobac™ is recombinant human lysozyme produced in an animal-free production system. Animal-free production eliminates the risk of adding an animal derived component. If you are looking for consistent, high performance cell lysis, Lysobac™ has been designed for you. Lysobac™ is offered for sale in 100 million, 1 billion, 10 billion and 100 billion unit package sizes. Pricing available upon request.

### Free of Animal Derived Components

Since Lysobac™ is produced in an animal-free system, it is free of infectious contaminants from animal origin.

### Proven Consistent Results

Lysobac™ is a recombinant protein that provides consistent cell lysis results, so process changes are minimized.

### Bioprocessing Efficiency

Lysobac™ saves bioprocessing time by eliminating cell harvest to provide in-culture protein extraction. In addition, because Lysobac™ is highly active it adds minimal volume to the final lysate.

### High Performance

Lysobac™ is 4 times more active per mg for lysing *Micrococcus* and *E. coli*, when compared with chicken lysozyme.

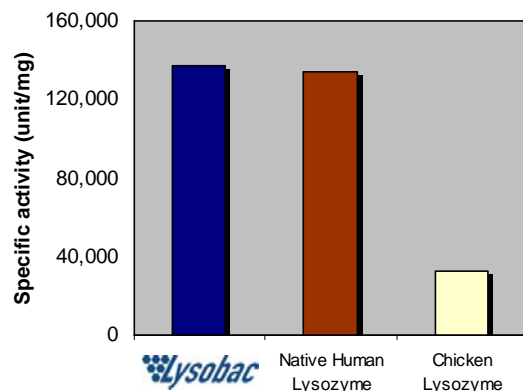
### Superior Economics

InVitria's efficient production methods and Lysobac's high activity levels combine to reduce overall costs when compared with chicken lysozyme.

### Gentle Lysing Agent

Lysobac™ is a gentle lysing agent providing minimal risk of denaturing protein.

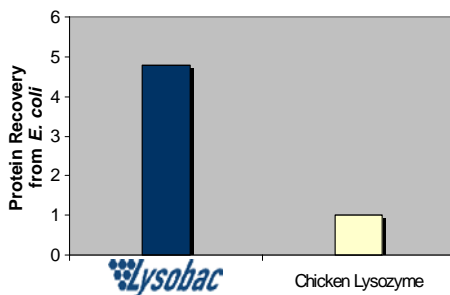
## Improves *Micrococcus* Cell Lysis



Specific activity for Lysobac™, native human lysozyme and chicken lysozyme were measured using a suspension of (0.015%) of *Micrococcus luteus* as the substrate.

Source: InVitria

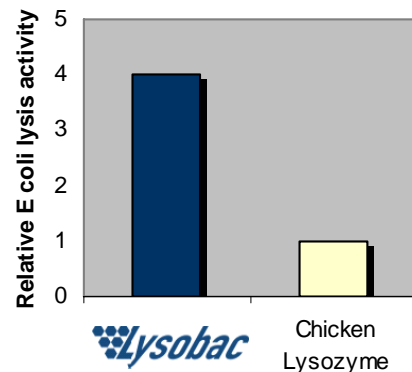
## Improves *E. coli* Protein Yield



When using equal amounts of Lysobac™ and chicken lysozyme, 5 times more protein was recovered from *E. coli* with Lysobac™ than with chicken lysozyme.

Source: InVitria

## Improves *E. coli* Cell Lysis



Lysobac™ and chicken lysozyme were added to *E. coli* culture at a concentration of 5ug/ml. After incubation, sample cultures were plated and incubated overnight. Colonies from each plate were counted and the *E. coli* lysis activity was determined.

Source: InVitria





# Lysobac

Recombinant Human Lysozyme

## Product Specifications



<b>Product Description:</b>	<b>Recombinant Human Lysozyme</b>
<b>Product Number:</b>	<b>777LYS016</b>
<b>Product Grade:</b>	<b>Bioprocessing Grade</b>
<b>Product Form:</b>	<b>Powder</b>

Test	Specification
Appearance	Off White Powder
Solubility	Clear solution at 10 mg/ml in phosphate buffered saline, pH 7.4 or H <sub>2</sub> O
Protein Content ( $A_{280}^{0.1\%} = 2.46$ )	≥75%
Specific Activity	>100,000 units/mg protein
Purity by SDS-PAGE	≥85%
Loss on Drying	<10% (w/w)

For *in vitro* use only

rev.04-06