

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.

Improves 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.

Higher Performance/More Active

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

Animal-Free

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

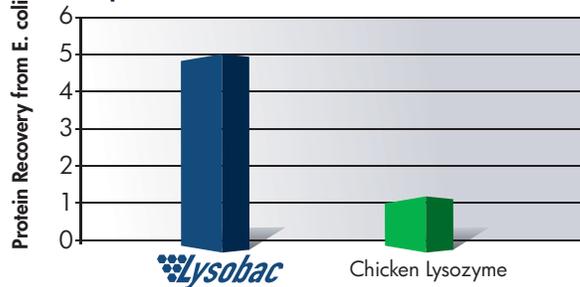
Gentle Lysing Agent/Improved Yield

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

Reduces Overall Cost

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

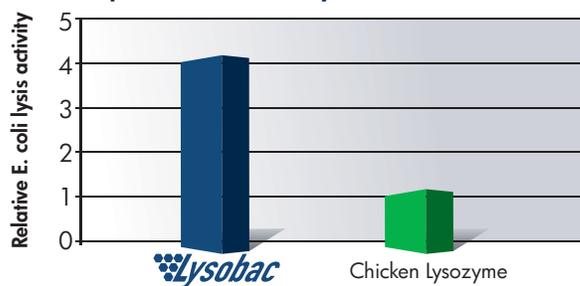
Improves E. coli Protein Yield



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

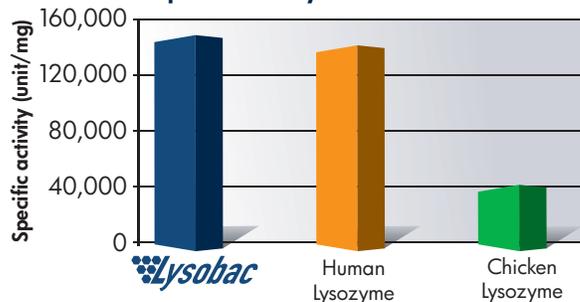
Improves E. coli Cell Lysis



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

Improves 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

Product Specifications

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

For in vitro use only

Product Description:
Recombinant Human Lysozyme

Product Number: 777LYSO16

Product Grade: Bioprocessing Grade

Product Form: Powder

