

Data Sheet

CellPrime™ recombinant human lysozyme

Safe and efficient protein recovery

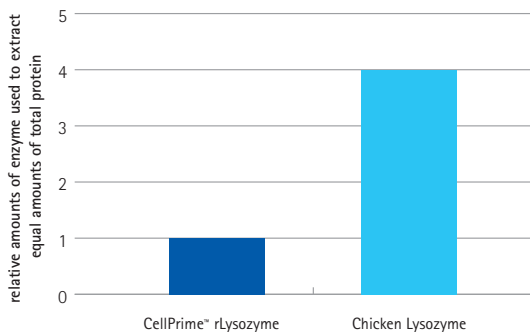
Expressing your protein in a bacterial system is easy; extracting the protein in a functional form can be difficult. Meet this challenge head-on with CellPrime™ recombinant human lysozyme (rLysozyme), specifically manufactured for use in biopharmaceutical production processes and life science research. This gentle agent (like its native human counterpart) has a specific activity that is 3.4 fold higher than that of chicken lysozyme. Hence you can recover more of your protein while minimizing the volume added to your lysate. Being safe and consistent, CellPrime™ rLysozyme helps you achieve higher yields from your therapeutic protein production process.



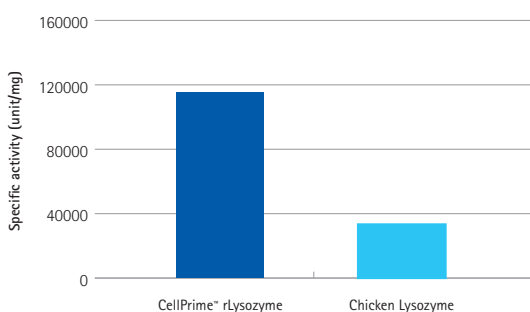
Benefits

- **Complete recovery of soluble protein** – get more with less: only 1/4th the amount of enzyme needed compared to chicken lysozyme
- **High performance** – 3.4 times higher specific activity than chicken lysozyme, in sync with the performance of native, non-recombinant human lysozyme
- **Improves bioprocessing efficiency** – saves bioprocessing time by eliminating cell harvest to provide in-culture protein extraction or by avoiding repeat French pressing cycles
- **Non-animal origin** – no risk of infectious disease transmission
- **Gentle lysing agent** – minimizes risk of denaturing protein, resulting in improved yield and quality
- **Large batch and pack sizes** – facilitate use in biomanufacturing

Complete protein recovery takes less enzyme



CellPrime™ rLysozyme specific activity (*Micrococcus lysodeikticus*)



CellPrime™ rLysozyme exhibits a 3.4 fold higher specific activity compared to chicken lysozyme.

For more information and documentation please contact:

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Is your process free of animal-origin materials?

CellPrime™ rLysozyme meets Merck Millipore's stringent definition of non-animal origin for cell culture products, with no animal-origin components in the:

- Master Seed Bank (MSB)
- Working Seed Bank (WSB)
- Raw materials
- Manufacturing process
- Final product

Available in gram through kilogram quantities, for every step of your process.

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 ($a_{280}^{0.1\%} = 2.46$)	≥ 75%
Specific activity	> 100,000 units/mg protein
Purity by SDS-PAGE	≥ 85%
Loss on drying	< 10% (w/w)

For in vitro use only

Order Information

Catalog # 5501-01	CellPrime™ recombinant human lysozyme, 1 g
Catalog # 5501-10	CellPrime™ recombinant human lysozyme, 10 g
Catalog # 5501-100	CellPrime™ recombinant human lysozyme, 100 g
Catalog # 5501-1KG	CellPrime™ recombinant human lysozyme, 1 kg

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