

# Certificate of Analysis



## Lyse-Aid™ Recombinant Lysozyme

Catalog Number: R1003E  
Lot Number: 1048-1  
Quantity: 1200 KU

### Description

Lyse-Aid™ Recombinant Lysozyme is a highly purified and stabilized lysozyme for lysis of gram-negative bacteria, such as *E. coli*. The enzyme catalyzes the hydrolysis of N-acetylmuramide linkages in bacterial cell walls. The specific activity of Lyse-Aid Recombinant Lysozyme (1,700 KU/mg) for *E. coli* lysis is 250 times greater than of chicken egg white lysozyme. Lyse-Aid is optimally active at physiological pH and enhances the efficiency of protein extraction with SembaSonic™ Protein Extraction Reagent at very low concentration (3-5 KU/g cell paste). The product is supplied as a ready-to-use solution at a concentration of 30 KU/μl.

### Storage Conditions

Store at -20°C. When stored as directed the product is guaranteed to maintain stability for 6 months from the date of shipment.

### Storage Buffer

50% glycerol containing 50 mM Tris-Cl, 0.1 M NaCl, 0.1 mM EDTA, 1 mM DTT, 0.1% TRITON® X-100, pH 7.5

### Dilution Buffer

50 mM Tris-Cl, 0.1 M NaCl, 0.1 mM EDTA, 1 mM DTT, 0.1% TRITON® X-100, pH 7.5

### Unit Definition

One unit of Lyse-Aid Recombinant Lysozyme is defined as the amount of enzyme necessary to cause a decrease of 0.025 A450 unit per minute at 25°C in a 1-ml suspension (1 mg/ml) of BL21 cells in 0.5X SembaSonic Reagent diluted with 50 mM Tris-HCl, pH 7.5.

### Quality Control Specifications

Test	Specifications
Purity (SDS-PAGE)	≥ 95%
Concentration (Unit Assay)	30-35 KU/μl
Exonuclease Activity	None detected
Endonuclease Activity	None detected

### Certified By

K. Stephens, QC Manager

### For Research Use Only

#### Warranty

Semba Biosciences, Inc. warrants the product will meet or exceed these specifications when used (under normal conditions) in your laboratory. We will promptly replace the product free of charge if the product does not conform to these specifications. Our obligation and your sole remedy is limited to such replacement in the event the product proves to be defective. No other warranties are expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Semba Biosciences, Inc. is not liable for consequential damages.

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