

# Certificate of Analysis



## SembaSonic™ 10X Protein Extraction Reagent

Catalog Number: R1012E  
Lot Number: 1022-2  
Quantity: 1 x 50 ml

### Description

SembaSonic 10X Protein Extraction Reagent is a proprietary concentrate containing a non-ionic detergent designed for preparation of cell lysates from *E. coli*. When used at a 1X final concentration, soluble proteins are gently released without denaturation of or interference with activity. When combined with a buffer such as Tris or phosphate, Lyse-Aid™ Recombinant Lysozyme, and Benzonase® Nuclease, bacterial cell walls are effectively disrupted and nucleic acids are degraded to produce a non-viscous protein extract suitable for assays or

chromatography. SembaSonic provides an easy, fast and economical substitute for physical disruption such as sonication or French Press homogenization. SembaSonic is ideal for rapid preparation of bacterial cell lysates for purification of recombinant proteins with Semba's Octave™ Chromatography System.

### Storage Conditions

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

### Quality Control Specifications

Test	Specifications
Comparison of cell lysate preparations (SembaSonic 10X Protein Extraction Reagent at a concentration of 1X versus 25 mM Tris-Cl, pH 8.0): SDS-PAGE analysis of the two lysate preparations must show greater intensity in the banding pattern with the lysate prepared with the SembaSonic at a 1X final concentration than the 25 mM Tris-Cl, pH 8.0.	Pass
Comparison of cell lysate preparations (SembaSonic 10X Protein Extraction Reagent versus a reference lot of SembaSonic 10X Protein Extraction Reagent, both at a concentration of 1X.) SDS-PAGE analysis of the two lysate preparations must show identical intensity and banding patterns.	Pass

### 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.