

# Certificate of Analysis



## SembaSonic™ Master Mix

Catalog Number: R1016E  
Lot Number: 1050-1  
Quantity: 100 ml

### Description

SembaSonic™ Master Mix is designed for convenient, efficient extraction of proteins from *E. coli*. This all-in-one reagent contains an optimized mixture of SembaSonic Protein Extraction Reagent, Lyse-Aid™ Recombinant Lysozyme, and Benzonase® Nuclease. Virtually complete cell lysis is accomplished by the combination of gentle non-ionic SembaSonic detergent and Lyse-Aid enzyme, with simultaneous degradation of nucleic acids by Benzonase to remove interference and reduce viscosity. Because there is no need for dilution or separate addition steps, SembaSonic Master Mix is well-suited for processing multiple samples in parallel and provides absolute consistency from experiment to experiment.

Protein extracts prepared with SembaSonic Master Mix are compatible with the BCA protein assay, many reporter assays, and chromatography matrices (e.g. affinity, size exclusion, ion exchange). The formulation contains 25 mM Tris-Cl, pH 8.0.

### Storage Conditions

+4°C. Do not freeze. If precipitation is observed, redissolve the precipitate by incubation at room temperature with gentle swirling prior to use. When stored as directed the product is guaranteed to maintain stability for 6 months from the date of shipment.

### Quality Control Specifications

Test	Specifications
<u>Comparison of cell lysate preparations (SembaSonic Master Mix versus 25 mM Tris-Cl, pH 8.0):</u> SDS-PAGE analysis of the two lysate preparations must show greater intensity in the banding pattern with the lysate prepared with the SembaSonic Master Mix than the 25 mM Tris-Cl, pH 8.0.	Pass
<u>Comparison of cell lysate preparations (SembaSonic Master Mix versus SembaSonic 10X Protein Extraction Reagent diluted to a concentration of 1X):</u> SDS-PAGE analysis of the two lysate preparations must show greater intensity in the banding pattern with the lysate prepared with the Semba Sonic Master Mix.	Pass
<u>Comparison of cell lysate preparations (SembaSonic Master Mix versus a reference lot of SembaSonic Master Mix.):</u> 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.