ReadiUse™ Yeast Cell Lysis Buffer *5X*

Catalog number: 24102
Unit size: 10 mL

Component	Storage	Amount (Cat No. 24102)
ReadiUse™ Yeast Cell Lysis Buffer *5X*	Refrigerated (2-8 °C)	10 mL

OVERVIEW

ReadiUse™ Yeast Cell Lysis Buffer is a biochemical reagent designed for efficient yeast cell lysis and protein solubilization in laboratory applications. Engineered to simplify the extraction of cell components, including proteins, lipids, nucleic acids, reporter molecules, and small biomolecules, this buffer employs a detergent-based lysis procedure for the gentle breakdown of yeast cell membranes. It releases functionally active and solubilized proteins without the need for abrasive methods like glass beads or mechanical treatments with strong reducing agents. With a mild detergent formulation, ReadiUse™ Yeast Cell Lysis Buffer minimizes the reliance on harsh chemical treatments, extreme pH adjustments, or temperature variations, contributing to the preservation of extracted protein integrity. Versatile in its efficacy across various organisms, including Bacillus subtilis, Gram-positive, and Gram-negative bacteria, ReadiUse™ Yeast Cell Lysis Buffer eliminates the need for external disruptive factors, simplifying the cell lysis process. Its applications span molecular biology research, protein purification, analysis, and biomolecular studies, offering a reliable solution for scientific experimentation.

AT A GLANCE

Important

Expiration date is 6 months from the date of receipt.

PREPARATION OF WORKING SOLUTION

ReadiUse™ Yeast Cell Lysis Buffer Working Solution (1X)

1. Add 1 mL of ReadiUse™ Yeast Cell Lysis Buffer (5X) into 4 mL of Mili-Q water and mix well.

SAMPLE EXPERIMENTAL PROTOCOL

Following is our recommended protocol for loading AM esters into live cells. This protocol only provides a guideline and should be modified according to your specific needs.

1. Prepare yeast cell samples by collecting yeast cells via centrifugation (10,000 g, 0°C, 15 minutes). Use about 100 to 10 million cells/mL of ReadiUse™ Yeast Cell Lysis Buffer working solution (1X), and keep the treated solution at room temperature for 15 minutes.

2. Centrifuge at 2500 rpm for 5 minutes, and use the supernatant for further biochemical analysis.

EXAMPLE DATA ANALYSIS AND FIGURES

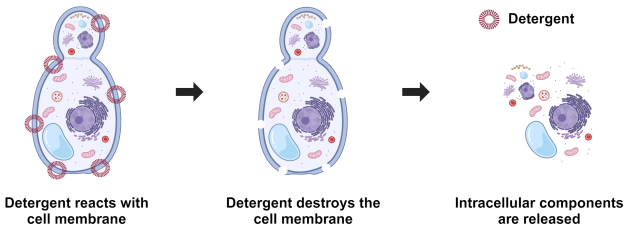

Figure 1. Yeast cell lysis refers to the breaking down of yeast cells, and it is often used to analyze specific cellular compositions such as proteins, lipids, nucleic acids, reporter molecules, cell signal molecules, and other small biomolecules. Depending upon the detergents used, either all or some membranes are lysed. ReadiUse™ reagents require minimal hands-on time. This yeast cell lysis buffer just requires a simple 5-fold dilution.

DISCLAIMER

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