

GentleLys - Native Cell Lysis Buffer - Stabilize



Product	Catalog No.	Package size
GentleLys - Native Cell Lysis Buffer - Stabilize (1 ml)	18903	1 ml
GentleLys - Native Cell Lysis Buffer - Stabilize (100 ml)	18906	100 ml
GentleLys - Native Cell Lysis Buffer - Stabilize (250 ml)	18907	250 ml

Product Description

Cell lysis is an inevitable step for analytical methods to study biomolecules, including soluble proteins, membrane proteins, nucleic acids, and other compounds in many kinds of downstream applications. To achieve the best possible, reproducible results, a native conformation of the extracted proteins is a huge advantage. Membrane-associated interaction partners, protein complexes, and receptor-ligand couples benefit from the natural folding present in the cell membrane. Classic approaches rely on lysis buffers containing NP-40, SDS, and deoxycholate often in combination with mechanical procedures (like french press and sonication) to ensure enhanced cell lysis causing non-native conditions without the essential lipid environment.

The Cube Biotech GentleLys Buffer is the only 100% detergent-free, non-denaturing solution to lyse cultured insect and mammalian cells from plated cells as well as cells pelleted from suspension cultures while solubilizing all membranes in the process. GentleLys enables the extraction of soluble proteins and the stabilization of membrane proteins from all compartments of insect cells, mammalian cells and viruses. It is compatible with many applications, including Immunoassays, Protein Assays, Mass Spectrometry, and Protein Purification. The Buffer comes in two variants: GentleLys – **Dissolve** which lyses cells in 15 min while GentleLys – **Stabilize** lyses all cells and makes the whole proteome (soluble and membrane proteins) of the cell available for your analytic approaches. It solubilizes all membranes and stabilizes expressed membrane proteins in their native conformation as well as native lipid environment in polymer-supported native nanodiscs. This process only takes two hours.

Technical Details

Name	Copolymer with hydrophobic and hydrophilic components, in 50 mM HEPES 100 mM NaCl, pH 7.5
MW	5,000 – 15.000 g/mol
Conductivity value at 20 °C	12.91 ± 0.5 mS
Color	White to slightly yellow
pH (dissolved)	7.5 ± 0.1

Shipping & Storage

Shipping Temperature	2-8 °C
Storage of lyophilized copolymer	-20 °C for several years
Storage of dissolved copolymer	2-8 °C for six months (not opened)

Disclaimer

Our products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.