

Description

Tribioscience Cell Lysis Buffer is used to lyse cells and tissues for cytoplasmic and nuclear protein extraction under non-denaturing conditions. The components list as below:

1X Celly Lysis Buffer:
 20 mM Tris-HCl (pH 7.5)
 150 mM NaCl
 1 mM EDTA
 1 mM EGTA
 1% Triton
 2.5 mM sodium pyrophosphate
 1 mM β -glycerophosphate
 1 mM Na_3VO_4
 1 $\mu\text{g/ml}$ leupeptin

Kit Content

Cell Lysis Buffer (5x): 40 mL
 PMSF (100mM): 1 mL

Application

For cytoplasmic and nuclear protein extraction

Storage

The items are stored at -20°C . For short-term storage (1-2 weeks), Cell Lysis Buffer can be stored at 4°C .

Directions for Use

1x Cell Lysis Buffer Preparation:

1. Thaw the Cell Lysis Buffer (5x) at room temperature and fully mix.
2. Dilute the Cell Lysis Buffer (5x) to 1x solution using ddH₂O. Chill the 1x Cell Lysis Buffer on ice and add PMSF (final 0.5mM) just prior to use.

Lysis Procedure

For lysis of adherent cells, we recommend the following (all reagents and lysates must be kept cold):

1. Treat cells as desired.
2. Wash plate with cold PBS to remove residual media.
3. Add 400 μL of RIPA buffer/ 10 cm dish.
4. Incubate plate on ice for 5 minutes.
5. Scrape cells into a 2 mL tube.
6. Sonicate briefly on ice.
7. Spin extract 10 minutes at 10,000 x g 4°C .
8. Take supernatant into a new tube as extracted protein for use.

For lysis of non-adherent cells, the method is below:

1. For lysis of non-adherent cells, wash cells with 1 x PBS, and pelleted.
2. For lysis of tissue samples, add 2x cell lysis buffer to the tissue sample (1 mg of tissue add 0.1 ml of Lysis buffer), then homogenizing or sonicating the tissue.
3. Spin extract 10 minutes at 10,000 x g 4°C .
4. Take the supernatant into a new tube as extracted protein for use.

Note: Additional protease inhibitors can be added to the cell lysis buffer without any difficulties.

Relative Products

TBS2005	Protein Assay Kit
TBS5001	Protein Lysis Buffer
TBS5003-0	1xPBS
TBS5008T	TBST
TBS5011-10	10 x PBST
TBS5008	TBS
TBS5008T	TBST
TBS5037	Urea Solution (8M)
TBS5038	Ammonium Sulfate Solution
TBS5040	0.5M EDTA Solution
TBS5041	MOPS Buffer
TBS5048	2% BSA in PBS
TBS5049-2	2% BSA in TBST
TBS5049-5	5% BSA in TBST
TBS5057	0.1% BSA ELISA Assay Buffer
TBS5058	ELISA Coating Buffer
TBS5077	Antigen retrieval Citrate Solution-pH6.0
TBS8024	MCF10 Cell Complete Medium
TBS8027	EMEM with L-Glutamine
TBS8030	McCoy's 5A Medium
TBS8031	30% BSA Solution in DPBS
TBS8047	MCF-7 Cell Complete Medium
TBS8056	LB Medium
TBS8057	SOB Medium
TBS8058	SOC Medium
TBS8059	2x YT Medium
TBS8060	Terrific Broth (TB) Medium
TBS8061	DMEM-high Glucose Medium

This product is for research use only.