

Cell Lysis 5X Reagent

MESGEN
INNOVATION BIOTECHNOLOGY

Catalog Number : ML0202

Packaging Size : 10 / 30 / 50 / 100mL

Product Description :

Cell Lysis is used to lyse cells under nondenaturing conditions.

1X Cell Lysis Buffer :

20 mM Tris-HCl (pH 7.5)

150 mM NaCl

1 mM Na₂EDTA

1 mM EGTA

1% Triton

2.5 mM sodium pyrophosphate

1 mM β-glycerophosphate

1 mM Na₃VO₄

1 µg/ml leupeptin

Directions for use :

1. If buffer will be continually used, it is recommended that the 5X buffer be kept at 4°C for 1-2 weeks. For longer periods of time, buffer should be stored at -20°C. Aliquotting of 5X buffer is recommended if many small experiments are to be performed.
2. Thaw 5X buffer at 24-30°C, mixing end-over-end.
3. Dilute 5X Cell Lysis Buffer to a 1X solution using ddH₂O. This product supplies enough 5X material to make 150 mls of whole cell extract.
4. Chill 1X buffer on ice and add PMSF just prior to use.

Note : MesGen recommends adding 1 mM PMSF immediately before use.

Lysis :

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 PBS to remove residual media.
3. Add 400 µl of 1x lysis buffer / 10 cm dish.
4. Incubate plate on ice for 5 minutes.
5. Scrape cells.
6. Sonicate briefly.
7. Spin extract 10 minutes at 14,000 x g in a cold microfuge.
8. Remove supernant for use.

Additional notes:

1. For non-adherent cells, add 400 µl of buffer per 10⁷ cells once they have been washed in 1X PBS and pelleted.
2. Additional protease inhibitors can be added to the 1x lysis buffer without any difficulties.

Storage :

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

This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

