invitrogen

Cell Lysis Buffer (20 mL)

Cat no.	Volume
EPX-99999-000	20 mL

Description: Cell Lysis Buffer is used to lyse cells under nondenaturing conditions.

Cell Lysis Buffer

- 20 mM Tris-HCl (pH 7.5)
- 150 mM NaCl
- 1 mM Na_2EDTA
- 1 mM EGTA
- 1% Triton
- 2.5 mM sodium pyrophosphate
- 1 mM β-glycerophosphate
- 1 mM Na_3VO_4
- 1 µg/ml leupeptin

1. If buffer will be continually used, it is recommended that the cell lysis buffer be kept at 4°C for 1-2 weeks. For longer periods of time, buffer should be stored at -20°C. Aliquotting of cell lysis buffer is recommended if many small experiments are to be performed.

2. Thaw cell lysis buffer at 24-30°C, mixing end-over-end.

3. Chill cell lysis buffer on ice and add PMSF just prior to use.

Note: CST 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 cell lysis buffer / 10 cm dish.
4. Incubate plate on ice for 5 min.
5. Scrape cells.
6. Sonicate briefly.
7. Spin extract 10 min at 14,000 x g in a cold microfuge.
8. Remove supernatant for use.

Additional Notes:

1. For non-adherent cells, add 400 µl of buffer per 10^7 cells once they have been washed in 1X PBS and pelleted.

2. Additional protease inhibitors can be added to the cell 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.

Documentation and support

Customer and technical support

Visit **thermofisher.com/support** for the latest in services and support, including:

- Worldwide contact telephone numbers
- Product support, including:
  - Product FAQs
  - Software, patches, and updates
- Order and web support
- Product documentation, including:
  - User guides, manuals, and protocols
  - Certificates of Analysis
  - Safety Data Sheets (SDSs; also known as MSDSs)

Note: For SDSs for reagents and chemicals from other manufacturers, contact the manufacturer.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at **www.thermofisher.com/us/en/home/global/terms-and-conditions.html**. If you have any questions, please contact Life Technologies at **thermofisher.com/support**.

Corporate entity: Life Technologies | Carlsbad, CA 92008 USA | Toll Free in USA 1.800.955.6288