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| **MESGEN.pngCell Lysis 5X Reagent** |

**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 b-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.***

