

Product Information

Mammalian Cell Extraction Kit

I. Kit Contents:

Components	K2114-500 500 assays	Cap Color	Part Number
Extraction Buffer	50 ml	NM	K2114-C-1
Protease Inhibitor Cocktail	1 vial	Red	K2114-C-2
DTT (1 M)	110 µl	Blue	K2114-C-3

II. Introduction:

Mammalian Cell Extraction Kit offers an optimized cell extraction buffer, protease inhibitor cocktail, and DTT for rapid and easy extraction of mammalian proteins from cultured cells and tissue samples without denaturation. The cell lysate extracted by this kit is suitable for various assays (e.g. Western blot, caspase activity etc.)

III. General Consideration and Reagent Preparation:

1. After opening the kit, store Cell Extraction Buffer at +4°C. Store Protease Inhibitor Cocktail and DTT at -20°C.
2. The Protease Inhibitor Cocktail is provided as lyophilized form. To reconstitute, add 100 µl DMSO to the vial, pipet several times to dissolve all powder (This makes 500X concentrated Protease Inhibitor Cocktail).
3. Before use, add 2 µl of DTT and 2 µl of Protease Inhibitor Cocktail to 1 ml of Cell Extraction Buffer (The mixture is referred as Extraction Buffer Mix).
4. Be sure to keep the Extraction Buffer Mix on ice at all times during the experiment.
5. The following protocol is described for extraction of $\sim 2 \times 10^6$ cells and should generate $\sim 100 - 300 \mu\text{g}$ of cell lysate. If large amount of cell lysate are desired, scale up the volumes proportionally.

IV. Mammalian Protein Extraction Protocol:

1. Collect cells by centrifugation at 600 x g for 5 minutes at 4°C.
Note: For adherent cells, scrape cells into PBS and spin down to pellet cells.
2. Resuspend cells in 100 µl of the Extraction Buffer Mix. Pipet up and down several times.
Note: For tissue samples, homogenize tissues in 2 - 3 volume of the Extraction Buffer Mix, until it is completely lysed.
3. Incubate on ice for 10 minutes, then vortex for 5 seconds.
4. Centrifuge in a microcentrifuge at top speed for 3 minute.
5. Collect the supernatant (Cell Lysate) and discard the pellet.
6. Store cell lysate at -70°C for further studies.

For research use only! Not to be used in humans.

Our promise

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For more details, please visit <http://www.apexbt.com/> or contact our technical team.

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