

Freezing Cells

Make sure cells are in log phase of growth, ie. subconfluent

Protocol 1:

1. Wash cells and trypsinize as usual.
2. Spin down trypsinized cells at 1000 rpm in the tabletop centrifuge
3. Resuspend cells in 0.45 ml standard medium
4. Add 0.45 ml fetal calf serum
5. Add dropwise, 100 μ l dimethylsulfoxide
6. Transfer cells to a sterile cryovial
7. Put the vial of cells in freezing rack and place in -70° C freezer
8. After several days, remove cells from the freezer and place in the liquid nitrogen tank. Remember to record the cells in the appropriate liquid nitrogen tank log book.

Protocol 2:

1. Wash cells and trypsinize as usual.
2. Spin down trypsinized cells at 1000 rpm in the tabletop centrifuge
3. Resuspend cells in 700 μ l standard medium
4. Add dropwise 300 μ l of a mixture of 2 volumes fetal calf serum: 1 volume DMSO, filter-sterilized. (Can be made up as a stock and frozen.)
5. Transfer cells to a sterile cryovial
6. Put the vial of cells in freezing rack and place in -70° C freezer
7. After several days, remove cells from the freezer and place in the liquid nitrogen tank. Remember to record the cells in the appropriate liquid nitrogen tank log book.