

SOP 23 Cell Cryopreservation

Materials:

- a. Outer-threaded vials
 - b. Pure FBS
 - c. 15% DMSO in RPMI-1640 medium
 - d. Isopropanol tub
 - e. Centrifuge tube containing cells for freezing
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- 1) For every vial cryopreserved, add 0.8mL (800 μ L) of FBS and 0.8 mL (800 μ L) of 15% DMSO in RPMI-1640 medium directly to the centrifuge tube containing the cells to be frozen.
 - a. Final concentrations of cryopreservation reagents are: 50% FBS and 7.5% DMSO
 - 2) Mix with the serological pipette
 - 3) Add 1.6 mL of the viable cells suspended in the cryopreservation medium +FBS to each 2 mL outer-threaded vial being frozen
 - a. Label vials with: Cell line name, passage, cell count, viability, todays date and your initials.
 - 4) Place vials into the isopropanol control rate freezing tub and into a -80°C freezer
 - b. Samples are to be inventoried and transferred 12-24 hours later into a liquid nitrogen vapor freezer
 - 5) Clean area with 70% ethanol