

Claims:

1. A cryopreserved cell preparation, wherein the preparation comprises:
 - (1) 2×10^7 /ml to 5×10^8 /ml cells; and
 - (2) a cryopreservation solution comprising: sodium chloride, a protective protein, and dimethyl sulfoxide,wherein the concentration of sodium chloride in the preparation is from 0.85% to 0.95% (w/v), the concentration of the protective protein in the preparation is from 15% to 90% (w/v), the concentration of dimethyl sulfoxide in the preparation is from 8% to 40% (w/v).
2. The preparation of claim 1, wherein the cells are selected from the group consisting of primary T cells, amplified T cells, gene transduced T cells, stem cells, and combinations thereof.
3. The preparation of claim 1, wherein the cells are selected from the group consisting of suspension-cultured cells and monolayer-cultured cells.
4. The preparation of claim 1, wherein the cell density in the preparation ranges from 1×10^5 - 5×10^8 /ml.
5. The preparation of claim 1, wherein the concentration of protective protein in the preparation is from 15% to 25% (w/v).
6. The preparation of claim 1, wherein the concentration of dimethyl sulfoxide in the preparation is from 8% to 12% (w/v).
7. A method for preparing a preparation according to claim 1, wherein the method comprises the steps:
 - (a) providing cells to be cryopreserved and a cryopreservation solution, and re-suspending the cells with the cryopreservation solution to obtain a first cryopreservation mixture; wherein the cryopreservation solution comprises the following components: an aqueous solution of sodium chloride, and a protective protein;
 - (b) adding the cryopreservation solution to the first cryopreservation mixture, and mixing to obtain a second cryopreservation mixture;

(c) transferring the second cryopreservation mixture to a container and conducting a programmed cooling to below -80°C . to obtain the cryopreserved cell preparation.

8. A resuscitation method for cryopreserved cells, comprising the steps:

- (i) providing the cryopreserved cell preparation of claim 1;
- (ii) placing the cryopreserved cell preparation to a $35\text{-}40^{\circ}\text{C}$. constant temperature apparatus for resuscitation to obtain a resuscitated cell-freezing solution complex;
- (iii) transferring the cells in the preparation to an injection carrier with a syringe or a disposable connector.

9. A method according to claim 8, wherein the injection carrier is an intravenously injectable solution.

10. The method of claim 8, wherein the injection carrier is selected from the group consisting of sodium chloride injection, multiple electrolytes injection, and amino acid injection.

11. A cell cryopreservation solution consisting of: an aqueous solution of sodium chloride, a protective protein, and dimethyl sulfoxide,
wherein sodium chloride has a concentration ranging from 0.85% to 0.95% (w/v) of the solution, the protective protein has a concentration ranging from 15% to 90% (w/v) of the solution, dimethyl sulfoxide has a concentration ranging from 8% to 40% (w/v) of the solution.

12. The cell cryopreservation solution of claim 11, wherein the protective protein has a concentration ranging from 15% to 25% (w/v) of the solution.

13. The cell cryopreservation solution of claim 11, wherein dimethyl sulfoxide has a concentration ranging from 8% to 12% (w/v) of the solution.