WHAT IS CLAIMED IS:

1. A cell culture composition comprising aggregates of stem cells in non-static cell culture wherein the cell density can range from about $5x10^4$ cells/ml to about 10^8 cells/ml.

2. The cell culture composition of claim 1 wherein the average diameter of the aggregates can be up to about a diameter of 1 mm.

3. The cell culture composition of claim 1 wherein the average number of cells per aggregate can be up to about 50,000 cells.

4. The cell culture composition of claim 1 wherein the number of cells per aggregate is about 50,000 cells and the average diameter of each aggregate is about 1mm.

5. A method for making the cell culture composition of claim 1, the method comprising inoculating a cell culture with stem cell aggregates and expanding the inoculated aggregates so that expansion produces a cell density of about $5x10^4$ cells/ml to about 10^8 cell/ml.

6. The cell culture composition of claim 1 wherein the aggregate of cells comprises cells that are not embryonic stem cells, embryonic germ cells, or germ cells and can differentiate into cell types of at least two of the endodermal, ectodermal and mesodermal embryonic lineages.

7. The cell culture composition of claim 1 wherein the aggregate of cells comprises cells that are isolated expanded non-embryonic stem, non-germ cells, the cells having undergone at least 10-40 cell doublings in culture, wherein the cells express oct4, are not transformed, and have a normal karyotype.

8. The cell culture composition of claim 1 wherein the aggregate of cells comprises cells that are isolated expanded non-embryonic stem, non-germ cells that are obtained by culture of non-embryonic, non-germ tissue, the cells having undergone at least 40 cell doublings in culture, wherein the cells are not transformed and have a normal karyotype.

9. The cell culture composition of claim 1 wherein the aggregate of cells comprises cells that are isolated expanded non-embryonic stem, non-germ cells, the cells having undergone at least 10-40 cell doublings in culture, wherein the cells express telomerase, are not transformed, and have a normal karyotype.

10. The cell culture composition of claim 1 wherein the aggregate of cells comprises cells that are isolated expanded non-embryonic stem, non-germ cells that can differentiate into at least one cell type

of at least two of the endodermal, ectodermal, and mesodermal embryonic lineages, said cells having undergone at least 10-40 cell doublings in culture.

11. The cell culture composition of claim 1 wherein the aggregate of cells comprises cells that are positive for one or more of oct3/4, telomerase, rex-1, rox-1, nanog, GATA6 and sox-2.

WHAT IS CLAIMED IS:

1. A cell culture composition comprising aggregates of stem cells in non-static cell culture wherein the cell density can range from about $5xl0^4$ cells/ml to about 10^8 cells/ml; wherein the aggregate of cells comprises cells that are isolated expanded non-embryonic stem, non-germ cells that can differentiate into at least one cell type of at least two of the endodermal, ectodermal, and mesodermal embryonic lineages, said cells having undergone at least 10-40 cell doublings in culture.