

CLAIMS

1. A method of purifying and storing noncultured Wharton's Jelly stem cells, the method comprising:
 - (a) digesting a tissue comprising Wharton's Jelly, wherein the digesting consists of mincing the tissue;
 - (b) diluting the tissue;
 - (c) subsequently filtering the tissue to generate a filtrate comprising the noncultured Wharton's Jelly stem cells; and
 - (d) storing the noncultured Wharton's Jelly stem cells at a temperature below -20°C.
2. The method of claim 1, further comprising removing arteries and veins from the tissue prior to digesting the tissue.
3. The method of claim 1, comprising sedimenting the noncultured Wharton's Jelly stem cells from the filtrate generated in step (c).
4. The method of claim 3, wherein centrifugation is used for sedimenting.
5. A method of purifying cultured and noncultured Wharton's Jelly stem cells, the method comprising:
 - purifying the noncultured Wharton's Jelly stem cells according to the method of claim 1, whereby undigested tissue is filtered from digested tissue in step (c); and
 - culturing mesenchymal stem cells from the undigested tissue.
6. A composition comprising noncultured Wharton's Jelly stem cells purified according to the method of claim 1 and a solution comprising plasma, a cryoprotectant, or human serum albumin, wherein the composition is at a temperature below -20°C.
7. A composition according to claim 6, wherein the purified, noncultured Wharton's Jelly stem cells have reduced CD73 and reduced CD105 levels compared to cultured mesenchymal stem cells.

8. A composition according to claim 6, wherein the solution is sterile.
9. Purified, noncultured Wharton's Jelly stem cells, for use as a medicament.
10. The method of claim 9, wherein the cells are autologous or allogeneic to the subject.

CLAIMS

1. A method of purifying and storing noncultured Wharton's Jelly stem cells, the method comprising:

(a) digesting a tissue comprising Wharton's Jelly, wherein the digesting consists of mincing the tissue;

(b) diluting the digested tissue;

(c) subsequently filtering the digested tissue to generate a filtrate comprising the noncultured Wharton's Jelly stem cells; and

(d) storing the noncultured Wharton's Jelly stem cells at a temperature below -20°C.

2. The method of claim 1, further comprising removing arteries and veins from the tissue prior to digesting the tissue.

3. The method of claim 1, comprising sedimenting the noncultured Wharton's Jelly stem cells from the filtrate generated in step (c).

4. The method of claim 3, wherein centrifugation is used for sedimenting.

5. A composition comprising noncultured Wharton's Jelly stem cells purified according to the method of claim 1 and a solution comprising plasma, a cryoprotectant, or human serum albumin, wherein the composition is at a temperature below -20°C.

6. A composition according to claim 5, wherein the purified, noncultured Wharton's Jelly stem cells have reduced CD73 and reduced CD105 levels compared to cultured mesenchymal stem cells.

7. A composition according to claim 5, wherein the solution is sterile.

8. Purified, noncultured Wharton's Jelly stem cells, for use as a medicament.

9. The method of claim 8, wherein the cells are autologous or allogeneic to the subject.