CLAIMS

1. A substantially homogeneous consecutively passaged isolated cell population comprising multipotent adult cells, which (a) are isolated from adipose tissue, (b) express CD9, CD10, CD13, CD29, CD44, CD49A, CD51, CD54, CD55, CD58, CD59, CD90 and CD105; and (c) lack expression of CD11b, CD14, CD15, CD16, CD31, CD34, CD45, CD49f, CD102, CD104, CD106 and CD133.

2. A multipotent adult cell population according to claim 1, which is isolated by a method that comprises:

(a) collecting adipose tissue;
(b) obtaining a cell suspension by enzymatic digestion;
(c) sedimenting and resuspending the cells in a culture medium;
(d) culturing the cells on a solid surface, and eliminating cells that show no adhesion to said solid surface; and
(e) expanding by consecutively passaging the cells.

3. A pharmaceutical composition that comprises a cell population according to claim 1 or 2, and a pharmaceutically acceptable carrier.

4. A substantially homogenous consecutively passaged isolated cell population comprising multipotent adult cells, which (a) are isolated from adipose tissue, (b) express CD9, CD10, CD13, CD29, CD44, CD49A, CD51, CD54, CD55, CD58, CD59, CD90 and CD105; and (c) lack expression of CD11b, CD14, CD15, CD16, CD31, CD34, CD45, CD49f, CD102, CD104, CD106 and CD133, for use in therapy.

5. A multipotent adult cell population according to claim 1, which is isolated by a method that comprises:

(a) collecting adipose tissue;
(b) obtaining a cell suspension by enzymatic digestion;
(c) sedimenting and resuspending the cells in a culture medium;
(d) culturing the cells on a solid surface, and eliminating cells that show no adhesion to said solid surface; and
(e) expanding by consecutively passaging the cells,
for use in therapy.