

**Supplement Figure 1 Primary culture, morphology, and growth kinetics of adipose-derived stromal cells and bone marrow stromal cells.** A: A1–A3, ADSCs are fibroblast-like cells; the number of cells increased gradually; on day 4, cells exhibited an obvious spiral structure. B1–B3, Fibroblast-like BMSCs ‘climbed out’ from the bone fragments; the number of cells increased gradually; on day 4, cells exhibited a spiral structure. B: A1–A4 shows passages 1–4 of ADSCs. B1–B4 shows passages 1–4 of BMSCs; all are long, spindle-shaped cells and showed no obvious difference in morphology. C: The two cell types had an S-shaped growth curve. During the first 3 d, the cells grew slowly. From day 4, the two cell types began to grow rapidly and entered a logarithmic growth period. From day 8, the cells stopped growing and entered a growth plateau phase. ADSCs: Adipose-derived stromal cells; BMSCs: Bone marrow stromal cells.

**Table 1 Primers**

|  |  |  |  |
| --- | --- | --- | --- |
| **Gene** | **Sequence (5’-3’)** | **Product size (bp)** | |
| *ALB* | F: ACCTCCTTTAAGGAAAACCC  R: GACGGACAGATGAGACCAAT | 214 |
| *CK-18* | F: GTGGAAGTGGATGCCCC  R: TCAGCTCCGTGAGTGTGG | 196 |
| *CK-19* | F: GAGCGTGATCAGCGGTTT  R: TCGAGGGAGGGGTTAGAG | 258 |
| *AFP* | F: AGAAAAACTCTGGCGATGGG  R: GGAAACTGGAAGGGTGGGAC | 190 |
| *G-6-P* | F: CAATCTCCTCTGGGTGGC  R: TTGCTGTAGTAGTCGGTGTCC | 111 |
| *Actin* | F: TACGAGGGCTATGCTCTCC  R: TTGATGTCACGCACGATTT | 143 |

*ALB*: Albumin; *CK-18*: Cytokeratin 18; *AFP*: Alpha fetoprotein; *G-6-P*: Glucose-6-phosphate.

**Supplement Table 1 Statistical results of cell proliferation of the two kind of cells**

|  |  |
| --- | --- |
| **Groups** | ***P* values** |
| ADSCs-P2-BMSCs-P2 | 0.3974, > 0.05 |
| ADSCs-P3-BMSCs-P3 | 0.1965, > 0.05 |
| ADSCs-P2-ADSCs-P3 | 0.6600, > 0.05 |
| BMSCs-P2-BMSCs-P3 | 0.9483, > 0.05 |

ADSCs: Adipose-derived stromal cells; BMSCs: Bone marrow stromal cells.

**Supplement Table 2 Expression of surface antigens of adipose-derived stromal cells and bone marrow stromal cells (%)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ADSCs-P2 | ADSCs-P3 | BMSCs-P2 | BMSCs-P3 |
| CD29 | 99.87 | 99.90 | 98.82 | 99.94 |
| CD90 | 95.68 | 98.55 | 96.20 | 98.23 |
| CD11b | 5.60 | 3.73 | 3.73 | 0.32 |
| CD45 | 0.32 | 2.30 | 1.74 | 1.01 |

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