**Supplementary Table S5:** Calculations on the potential MSC-yield for the different expansion systems.

|  |  |  |
| --- | --- | --- |
|  | **Passage 0** | **Passage 1** |
| **Parameter** | **MSC harvested/µL BM seeded** | **MSC harvested/BM-aspiration** | **MSC harvested/µL BM seeded** | **MSC harvested/BM-aspiration** |
| **Single-step expansion system (n = 16) – SSP** |
| **Mean** | 11.9 x 103 | 356.1 x 106 | n/a | n/a |
| **S.D.** | 9.1 x 103 | 426.7 x 106 | n/a | n/a |
| **Minimum** | 0.3 x 103 | 9.4 x 106 | n/a | n/a |
| **Maximum** | 33.8 x 103 | 1828.8 x 106 | n/a | n/a |
| **Two-step expansion system, option 1 (n = 11) – TSP1** |
| **Mean** | 21.2 x 103 | 554.1 x 106 | 235.3 x 103 | 6279.9 x 106 |
| **S.D.** | 12.9 x 103 | 368.6 x 106 | 175.4 x 103 | 5100.1 x 106 |
| **Minimum** | 2.9 x 103 | 65.6 x 106 | 6.6 x 103 | 152.9 x 106 |
| **Maximum** | 44.7 x 103 | 1245.1 x 106 | 591.3 x 103 | 15520.6 x 106 |
| **Two-step expansion system, option 2 (n = 14) – TSP2** |
| **Mean** | 9.6 x 103 | 261.1 x 106 | 91.5 x 103 | 2508.8 x 106 |
| **S.D.** | 4.7 x 103 | 138.1 x 106 | 76.1 x 103 | 2321.9 x 106 |
| **Minimum** | 1.7 x 103 | 38.4 x 106 | 16.4 x 103 | 377.8 x 106 |
| **Maximum** | 16.4 x 103 | 507.7 x 106 | 315.7 x 103 | 9753.7 x 106 |
| **Two-step expansion system, option 3 (n = 6) – TSP3** |
| **Mean** | 19.8 x 103 | 482.8 x 106 | 214.3 x 103 | 5424.2 x 106 |
| **S.D.** | 19.6 x 103 | 532.5 x 106 | 360.6 x 103 | 9565.8 x 106 |
| **Minimum** | 5.8 x 103 | 132.8 x 106 | 20.7 x 103 | 476.3 x 106 |
| **Maximum** | 59.0 x 103 | 1549.0 x 106 | 947.8 x 103 | 24879.3 x 106 |
| **Two-step expansion system, option 4 (n = 12) – TSP4** |
| **Mean** | 15.2 x 103 | 394.4.3 x 106 | 173.8 x 103 | 4487.3 x 106 |
| **S.D.** | 9.1 x 103 | 272.3 x 106 | 151.9 x 103 | 4479.1 x 106 |
| **Minimum** | 1.0 x 103 | 22.2 x 106 | 11.6 x 103 | 267.8 x 106 |
| **Maximum** | 30.3 x 103 | 834.9 x 106 | 550.2 x 103 | 15406.8 x 106 |

S.D.: standard deviation. n/a: not applicable