

MSCs Serum-free Culture Medium Kit

Product Introduction

MCM CulMsc-SFM30 culture kit is developed for human umbilical derived MSCs, human placenta MSCs, and human adipose MSCs expansion. The kit is component clear, serum-free, animal origin-free and low protein level. It adapts primary MSCs separate and stable passage and maintains MSC differentiation potential (osteogenesis, adipogenesis, and chondrogenesis).



Product Information

| Product | Catalogue | Item No. | Specification |
|--------------------------------|---|--------------|---------------|
| MSCs Serum-free Culture Medium | MCM CulMsc-SFM30(with phenol red) | CM030-500 | 500mL/set |
| MSCs Serum-free Culture Medium | MCM CulMsc-SFM30(A)(without phenol red) | CM030(A)-500 | 500mL/set |

Product Advantages

- Serum-free, animal origin-free and low protein level;
- Completely support serum-free culture, no serum or serum substitute required, and suitable for bioreactor;
- Adapt primary MSCs separate (Enzyme digestion and tissue explant);
- Stable passage and maintain MSC differentiation potential;
- cGMP standard production conditions, using disposable manufacturing techniques to ensure highly stable and consistency of different batches.

Using Method

1. Culture carrier coating: for different sizes of culture plates/flasks/cell factories, add the appropriate amount of coating solution and incubate for 1-2h for coating.
2. Primary isolation culture/cell inoculation: inoculation of tissue blocks/enzyme digested or recovered MSCs onto well coated culture vectors for culture.
3. Cell passaging culture: Trypsin digestion, cell collection by centrifugation, and continued passaging culture according to a certain density;
4. Cell harvesting and freezing of cells: trypsin digestion, centrifugation to collect cells, freezing at a certain density with lyophilization solution

Figure 1, Cell morphology

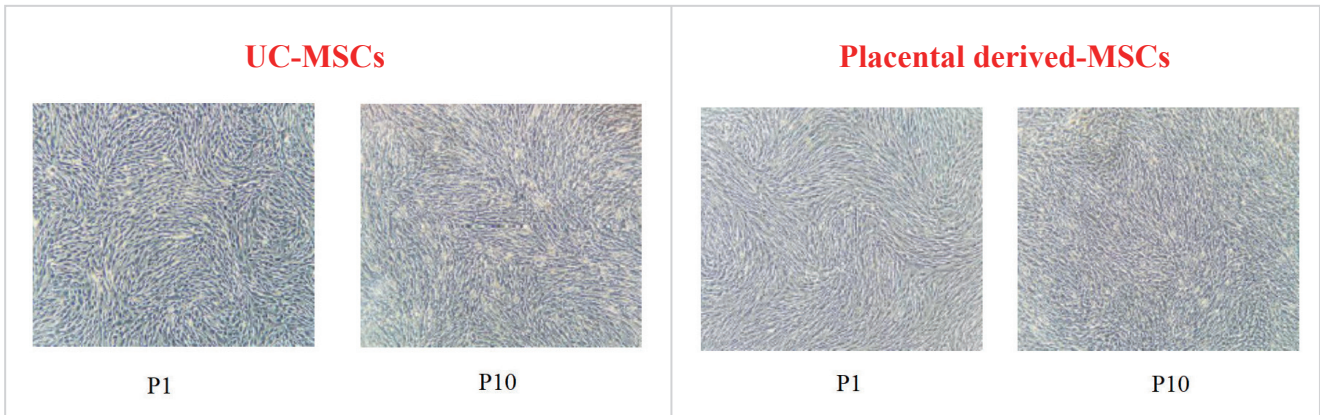


Figure 2, Cell flow assay

| Cell Type | CD73 ⁺ | CD90 ⁺ | CD105 ⁺ | CD34 ⁺ | CD45 ⁺ |
|-------------|-------------------|-------------------|--------------------|-------------------|-------------------|
| UC-MSCs, P1 | 99.8% | 99.5% | 98.1% | <0.2% | <0.2% |
| PL-MSCs, P1 | 99.6% | 99.1% | 98.4% | <0.2% | <0.2% |

Figure 3, Cellular lipogenic, osteogenic differentiation capacity

