

# SUPERCULTURE Human Mesenchymal Stem Cells Culture Kit (Exosome-Free)

Cat#: 6114561/6114571

## [Product Name]

Human Mesenchymal Stem Cells Culture Kit (Exosome-Free)

## [Product Description]

Human Mesenchymal Stem Cell Culture Kit (Exosome-Free) is a research-grade product designed for the culture of human mesenchymal stem cells (hMSCs) without exosomes. It is suitable for exosome research and can be used for the analysis of exosomes derived from human mesenchymal stem cells.

## [Model & Specification]

Product Name	Cat. No.	Model	Size	Components Size	Components Name	Components Size	Quantity
Human Mesenchymal Stem Cells Culture Kit (Exosome-Free)	6114561	Type A	500 mL/kit	XC0012A	Human Mesenchymal Stem Cell Basal Medium (Type A)	450 mL	1 bottle
				6021041	Fetal Bovine Serum (Exosome-Free)	50 mL	1 bottle
	6114571	Type B	500 mL/kit	XC0013A	Human Mesenchymal Stem Cell Basal Medium (Type B)	450 mL	1 bottle
				6021041	Fetal Bovine Serum (Exosome-Free)	50 mL	1 bottle

\* Note: Type A (with phenol red) , Type B (without phenol red).

## [Product Parameters]

<b>Exosomes</b>	No exosomes
<b>Sodium Glutamate</b>	Contains glutamine
<b>Antibiotics</b>	No antibiotics
<b>HEPES Buffer</b>	No HEPES
<b>Sodium Bicarbonate Buffer</b>	Contains sodium bicarbonate

## [Storage Conditions and Validity Period]

- Human Mesenchymal Stem Cell Basal Medium: Store at 2°C~8°C, protected from light, with a shelf life of 1 year.
- Fetal Bovine Serum (Exosome-Free): Store at -15°C~-25°C, protected from light, with a shelf life of 5 years.
- Mix the two and store at 2°C~8°C, it is recommended to use up as soon as possible.

## [Product Features]

- Exosome-Free culture medium.
- Suitable for passage culture of human mesenchymal stem cells from various tissue sources.

## [Directions for Use]

### Medium Preparation

- Thaw the Fetal Bovine Serum (Exosome-Free) overnight in a refrigerator (2°C~8°C). If necessary, aliquot the serum under aseptic conditions and store at -15°C~-25°C.
- Under aseptic conditions, completely thaw 50 mL of Fetal Bovine Serum (Exosome-Free) and add it to 450 mL of Human Mesenchymal Stem Cell Basal Medium that has been equilibrated to room temperature, preparing a 10% concentration of complete culture medium.

\* **Tips:** If needed, users can prepare the required amount according to the ratio or add antibiotics on their own, such as diluting penicillin/streptomycin at a 1:100 ratio into the complete culture medium.









### Cell Culture

1. Take resuscitated or passaged human mesenchymal stem cells (hMSCs) and perform cell counting.
2. Add the culture medium to the desired cell concentration and seed it into the culture flask (recommended seeding density is  $0.8 \times 10^4 \sim 1.0 \times 10^4 / \text{cm}^2$ ).
3. Incubation conditions: 5% CO<sub>2</sub>, 37°C;
4. Change the medium every 2~3 days based on cell growth. When cells reach 80%~90% confluence, digestion can be performed.
5. Digestion method: Pour out the medium in the culture flask, wash the adherent cells twice with PBS or saline, cover the flask bottom with trypsin or trypsin substitute, incubate at 37°C for 1~3 minutes in the cell culture incubator, add complete culture medium to terminate digestion, transfer the cell suspension to a centrifuge tube, centrifuge at  $210 \times g$  for 4 minutes, and the precipitate is the required cells.
6. After cell counting, harvest directly or continue seeding.

### [Notes]

- The effectiveness of cell culture with this product may vary depending on cell source, storage conditions, sample quality, and operator experience.
- This product is for research use only.

### [Description of Product Symbol]

Product Symbol	Description	Product Symbol	Description
	Catalogue number		Batch code
	Date of manufacture		Use-by date
	Manufacturer		Temperature limitation
	Keep away from sunlight		Consult instructions for use

### [Related Products]

Product name	Cat. No.	Size
Mesenchymal Stem Cells Culture Kit	6914511/6914521	500 mL/kit
GF20 MSC Xeno-Free SFM	6914112/6914122	500 mL/kit
DPBS	6062011	500 mL/bottle
Trypsin Solution	6063111	100 mL/bottle
Serum-Free Cell Freezing Medium	6032011	100 mL

**[Instruction Revision Date]**  
2024.03.27

**[Company Information]**

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