

SUPERCULTURE Human Mesenchymal Stem Cell Chondrogenic Differentiation Medium

Cat#: 6114551

[Product Name]

Human Mesenchymal Stem Cell Chondrogenic Differentiation Medium

[Product Description]

Human Mesenchymal Stem Cell Chondrogenic Differentiation Medium is specifically designed for the in vitro induction of human mesenchymal stem cells (hMSCs) into chondrogenic. It can be used for the chondrogenic differentiation of hMSCs derived from bone marrow, umbilical cord, adipose tissue, and other sources.

[Model & Specification]

Product Name	Cat No.	Size	Component No.	Component Name	Component Size	Quantity
Human Mesenchymal Stem Cell Chondrogenic Differentiation Medium	6114551	200 mL/Kit	XC0005A	Human Mesenchymal Stem Cell Chondrogenic Differentiation Basal Medium	195 mL	1 bottle
			XC0006A	Human Mesenchymal Stem Cell Chondrogenic Differentiation Supplement	5 mL	1 bottle

[Storage Conditions and Validity Period]

- Human Mesenchymal Stem Cell Chondrogenic Differentiation Basal Medium: Store at 2°C~8°C, valid for 12 months.
- Human Mesenchymal Stem Cell Chondrogenic Differentiation Supplement: Store at -15°C~-25°C, valid for 12 months.
- Prepared Human Mesenchymal Stem Cell Chondrogenic Differentiation Medium: Store at 2°C~8°C, valid for 2 weeks.

[Directions for Use]

1. Thaw 5 mL of Human Mesenchymal Stem Cell Chondrogenic Differentiation Supplement, add it to 195 mL of Human Mesenchymal Stem Cell Chondrogenic Differentiation Basal Medium, and prepare 2.5% Human Mesenchymal Stem Cell Chondrogenic Differentiation Medium (adjust volumes according to requirements).
2. Resuspend recovered/digested hMSCs in Human Mesenchymal Stem Cell Chondrogenic Differentiation Medium at a concentration of $0.5 \times 10^6 \sim 1.0 \times 10^6$ cells/mL. Transfer 1 mL of cell suspension into a 15 mL polypropylene centrifuge tube, centrifuge at 500 g for 5 minutes to aggregate the cells, remove the supernatant, and add another 1 mL of Human Mesenchymal Stem Cell Chondrogenic Differentiation Medium.
3. Place the centrifuge tube in a cell culture incubator, loosen the tube cap for air exchange.
4. Spheroids will form within 24~48 hours, and the size of the spheroids is related to the seeded cell

quantity.

5. Change the medium every 2~3 days, 1 mL each time. Gently pipette the spheroids to avoid adherence to the tube bottom.

Note: Gently change the medium to avoid sucking out the spheroids.

6. After the third week of differentiation, sections could be stained to observe the results.

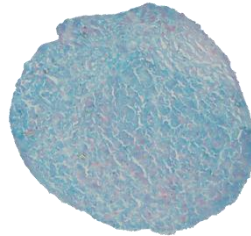










Figure 1. On the 21th day of differentiation, crosssection of cell spheroids by Alcian Blue staining and nuclear solid red restaining.

[Notes]

- Upon first thawing, aliquot it to avoid damage via repeated freeze-thaw cycle, and ensure sterile handling during use.
- For research use only.
- The chondrogenic differentiation level of human mesenchymal stem cells may vary due to differences in cell sources, donors, and pre-culture conditions.

[Description of Product Symbol]

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

[Related Products]

Product Name	Cat No.	Specification
Human Mesenchymal Stem Cells Culture Kit	6914511/6914521	500 mL/Kit
Mesenchymal Stem Cell Basal Medium	6114011/6114021	500 mL/bottle
Human Mesenchymal Stem Cell Adipogenic Differentiation Medium	6114531	200 mL/Kit
Human Mesenchymal Stem Cell Osteogenic Differentiation Medium	6114541	200 mL/Kit
Cell Adhesion Reagent	6063011	100 mL/bottle

[Instruction Revision date]

2024.06.17

[Company Information]

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