

## Mesenchymal Stem Cell Medium 间充质干细胞培养液说明书

### Product Description

Product Name	Size	Cat.No	Storage Temperature	Shipping Conditions
Mesenchymal Stem Cell Basal Medium	500ml	JX7501MCM-B	4-8°C	Ice Pack
Mesenchymal Stem Cell Growth Supplement	5ml	7501	-20°C	Dry ice
Fetal Bovine Serum, Human Cell Tested	25ml	0625	-20°C	Dry ice
Penicillin/Streptomycin Solution	5ml	0705	-20°C	Dry ice

Mesenchymal Stem Cell Complete Medium is composed of Mesenchymal Stem Cell Basal Medium, Stem Cell Growth Supplement, 25 mL Fetal Bovine Serum, and Penicillin/Streptomycin Solution, forming a complete culture system specifically designed for optimal in vitro growth of normal mesenchymal stem cells.

This sterile liquid medium contains scientifically formulated essential amino acids, vitamins, trace minerals, growth factors, organic/inorganic compounds, hormones, and 5% FBS. Through rigorous quantitative and qualitative formulation design, this medium selectively promotes the proliferation of mesenchymal stem cells in vitro, effectively maintains normal cell morphology and function, and provides a stable growth environment.

We test all components for strict quality control, including sterility testing, endotoxin testing (<0.1 EU/mL), and mycoplasma testing (negative), ensuring the safety and reliability of the culture system.

### Preparation Instructions

- **Component Thawing:** Thaw the Stem Cell Growth Supplement (MSCGS), Fetal Bovine Serum (FBS), and Penicillin/Streptomycin Solution (P/S) in a 37°C water bath. After thawing, gently invert the tubes 3-5 times to ensure complete mixing.
- **Aseptic Handling:** Disinfect the exterior of the tubes by wiping with 70% ethanol and allow to air-dry for 30 seconds. Open tubes at a 45° angle within a biosafety cabinet, avoiding contact with the cap threads.
- **Medium Preparation:** Add components in the following order: Base medium → FBS → P/S → Growth Factor Supplement. Mix gently by pipetting up and down, and complete the procedure within 15 minutes to minimize light exposure.

## Formulation Example

Target Volume	Basal Medium (JX7501MCM-B)	Supplement (7501) (1/100)	Penicillin Strept omycin (0705) (1/100)	Serum (0625)(5/100)	Final Ratio
100ml	100ml	1ml	1ml	5ml	100:1:1:5
200ml	200ml	2ml	2ml	10ml	100:1:1:5 ( x2)
500ml	500ml	5ml	5ml	25ml	100:1:1:5 ( x5)

## Storage Instructions

The basal medium must be stored protected from light at 4-8 ° C (freezing strictly prohibited), while growth factors require immediate storage at -20 ° C shielded from light upon arrival, with repeated freeze-thaw cycles to be avoided for all components. All products maintain stability until their labeled expiration dates when stored under these recommended conditions. Reconstituted complete medium remains stable for one month when stored at 4 ° C protected from light. For optimal performance: do not pre-warm in a 37 ° C water bath, instead preheat only the required volume to 15-25 ° C for immediate use and return unused aliquots to 4-8 ° C refrigeration.

## Quality Control

All Cellvita mesenchymal stem cell(MSCM) Medium are clear, transparent solutions (may exhibit slight coloration) with a stable pH range of 7.0-7.4 at 37 ° C (adjustable based on cell type) and optimal osmolality for cell growth. All production batches undergo rigorous sterility testing (confirmed negative for bacteria, fungi, and yeast; endotoxin levels <0.1 EU/mL) and mycoplasma screening (PCR-certified). Functionally validated to ensure batch-to-batch consistency, these media reliably support mesenchymal stem cell (MSCM) adhesion, proliferation, and passage.

## Intended Use

This extracellular matrix product is intended solely for research use only (RUO) in laboratory research and has not been evaluated or approved for use in humans or animals, in vitro diagnostic applications, or human therapeutic applications.

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