

## MSC 间充干细胞培养液（无血清）说明书

## Mesenchymal Stem Cell Serum-Free Medium Instruction manual

### Product Description

Product Name	Size	Cat.No	Storage Temperature	Shipping Conditions
Mesenchymal Stem Cell Basal Medium	500ml	JX7502MCM-B	4-8°C	Ice Pack
Mesenchymal Stem Cell Growth Supplement	25ml	7502	-20°C	Dry ice

Mesenchymal Stem Cell Serum-Free Complete Medium is composed of Mesenchymal Stem Cell Basal Medium, Stem Cell Growth Supplement, Mix thoroughly to prepare the complete serum-free medium for mesenchymal stem cells (MSCs).

This sterile liquid medium contains scientifically formulated essential amino acids, vitamins, trace minerals, growth factors, organic/inorganic compounds, hormones, 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), 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 → Growth Factor Supplement. Mix gently by pipetting up and down, and complete the procedure within 15 minutes to minimize light exposure.
- **phenol red:** This product is free from phenol red, serum, and animal-derived components. If required, these can be supplemented separately.
- **Antibiotics:** This product contains no antibiotics. Addition of antibiotics is not recommended. If antibiotic supplementation is necessary, culture conditions should be optimized accordingly.
- For optimal cell culture performance, this product may be used as a ready-to-use solution. Alternatively, essential growth factors, hormones, or other supplements may be added according to specific cell types or research requirements.

## Formulation Example

Target Volume	Basal Medium (JX7502MCM-B)	Supplement (7502) (5/100)	Final Ratio
100ml	100ml	5ml	100:1
200ml	200ml	10ml	100:1 ( x2)
500ml	500ml	25ml	100:1 ( 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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