

Fibroblast Medium Supplement (50x)

Cell Culture Reagents-Growth Supplements

Catalog Number: CC117

Description: Fibroblast Medium Supplement is a chemically defined or serum-reduced additive designed to support the optimal growth, proliferation, and functional maintenance of primary fibroblasts and fibroblast cell lines in vitro. It is formulated to enhance standard basal media (such as DMEM or RPMI-based systems), improving cell viability and consistency while reducing batch-to-batch variability associated with serum-containing conditions.

Intended Use: This supplement is intended for research use only. It is commonly used in:

- Primary fibroblast expansion
- Wound healing and tissue repair models
- 3D culture systems and organoid stromal support
- Co-culture systems involving epithelial, endothelial, or immune cells

Key Features:

- Enhanced Proliferation Support: Promotes stable fibroblast growth and extended passage capacity
- Defined or Low-Serum Compatibility: Reduces dependence on fetal bovine serum (FBS)
- Improved Phenotype Maintenance: Helps preserve fibroblast morphology and functional markers
- Batch Consistency: Minimizes variability between experiments
- Compatible with Multiple Media: Works with DMEM, DMEM/F12, RPMI-1640, and custom basal formulations

Components:

- Growth factors (e.g., FGF or recombinant analogs)
- Insulin or insulin-like peptides
- BSA
- Stimulative hormones

Usage Recommendation:

- Add the supplement to pre-warmed basal medium under sterile conditions. Final working concentration is typically 1× unless otherwise specified.
- Depending on experimental requirements, 2%–5% fetal bovine serum (FBS) may be supplemented to further support cell growth and attachment.

Physical Appearance: Sterile filtered clear solution.

Endotoxin: tested

Pack Size: 10mL, sufficient to prepare 500mL of medium.

Storage & Stability: Should be stored at -20°C. Please avoid freeze-thaw cycles.

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES

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