



## M3:BaseA™ Supplemented Growth Media with Antibiotics

**Product Name:** M3:BaseA™  
**Product Codes:** M300A-100, M300A-500  
**Product Use:** Highly enriched, serum-free liquid culture medium with various growth factors and supplements; for human stem cells and other progenitor and fastidious cell types. User adds serum at concentration of choice.  
**Features:** GMP quality; sterile; USP grade materials; contains antibiotics.

**Manufacturer:** INCELL Corporation LLC  
**Address:** 12734 Cimarron Path  
**City/State/Zip:** San Antonio, TX 78249  
**Phone:** 800.364.1765; 210.877.0100  
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**Distributor:** INCELL Corporation LLC  
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### General Description

M3:BaseA is a proprietary, multi-factor supplemented basal culture media in the M3™ Media Family and subfamily (Table 1). M3:BaseA™ is a serum-free, highly enriched, phenol red-containing, high performance liquid culture media for human stem cells and other progenitor and fastidious cell types, including human tumor cells and tissues. Its counterpart xeno-free (XF) M3Z™ formula without phenol red is M3Z:MaxA™.

### Formulation and Packaging

GMP manufactured M3:BaseA™ is a complex growth media that contains salts, sugars, amino acids, peptides, multiple growth-promoting components in supplement mix (SMX), and antibiotics (clindamycin, gentamicin, and amphotericin B). M3:BaseA™ is packaged in 100 mL and 500 mL bottles. Serum or other culture and growth factors are usually added per the needs of each tissue or cell-type, and an intended use. The chemically defined media M3:D™ is the basal formula of salts, sugars, amino acids, and buffers to which supplements are added to formulate M3:BaseA™. M3:D™ is used as the “control”, “holding” or “shift-down” media in studies where M3:BaseA™ supplemented media are being used for growth or in vitro testing, and a control group without growth stimulating factors is needed.

### Use and Methods

Tables 2 and 3, respectively focused on humans and animals, show an extensive experience with many types of tissues and derived cell cultures have successfully used M3™ media for culture initiation and in vitro expansion. A variety of methods to support cell monolayers and/or suspension cell growth have been used with suitable, supplemented M3™ media. Substrates have included standard cell culture plastics, complex biomatrices, meshes and engineered scaffolds.

### Specifications

Visual  
 pH (USP <791>)  
 Osmolality (USP<785>)  
 Sterility: SC (USP <71>)  
 Sterility: fTG (USP <71>)  
 Mycoplasma (USP <63>)  
 Endotoxin (USP <85>)  
 Expiration

### Acceptance Criteria

Clear, red to red/orange (with phenol red)  
 6.8 to 7.7  
 310 mmol/kg to 370 mmol/kg  
 No microbial growth  
 No microbial growth  
 None detected  
 <5.0 EU/mL  
 18 months from date of manufacture

**Table 1. M3™ Media Family: M3™ and M3Z™ Subfamilies**

M3™ Media Subfamily (With Phenol Red)				
Media Designation	Product Code	Anti-biotics	SMX	Serum (Source)
M3:D™	M3DEF	No	No	No
M3:BaseF™	M300F	No	Yes	No
M3:BaseA™	M300A	Yes	Yes	No
M3:10A™	M310A	Yes	Yes	Yes (10% FBS)
M3Z™ XF Media Subfamily (No Phenol Red)				
Media Designation	Product Code	Anti-biotics	SMX-XF	Serum (Source)
M3Z:MB™	M3ZMB	No	No	No
M3Z:MaxF™	M3ZF	No	Yes	No
M3Z:MaxA™	M3ZA	Yes	Yes	No
M3Z:Max10™	M3Z10	No	Yes	Yes (10% huS)
M3Z:Max10A™	M3Z10A	Yes	Yes	Yes (10% huS)

Legend. The M3™ Media Family includes M3™ and M3Z™ Subfamilies. M3™ media use M3:D™ as the platform media, which is chemically defined, contains phenol red (pH indicator), has some animal derived elemental components, but no growth factors, proteins or complex supplement mix (SMX). The M3™ media suffix designations of “F” and “A” refer, respectively, to “Free (F) of phenol red and antibiotics”, contains “Antibiotics” (A: gentamicin [50 µg/mL]; clindamycin [6.5 µg/mL] and/ or Amphotericin B [2.5 µg/mL]. Media designation “10” refers to 10% percent fetal bovine serum (FBS).

M3Z™ media use M3Z:MB™ as platform media, which is chemically defined, has no phenol red, is free of animal derived components (i.e., “xeno free” [XF]), but no growth factors, proteins or complex XF supplement mix (SMX-XF). The M3Z™ media suffix designations of “F” and “A” refer, respectively, as “Free (F) of antibiotics”, contains “Antibiotics” (A: gentamicin [50 µg/mL]; clindamycin [6.5 µg/mL] only). The number “10” in the M3Z™ media designation refers to 10% human AB serum (hS) supplement.

### M3:BaseA™. Supplemented Growth Media with Antibiotics



## PRODUCT DESCRIPTION

### Manufacturing

M3:BaseA™ is manufactured by sterile 0.22 µm filtration and packaging, using cGMP standards in an ISO Class 7 clean room and ISO Class 5 biosafety cabinet and using USP Standards for QC testing. Raw materials are pre-tested and the final product is checked for endotoxin, sterility (bacteria, fungi, and mycoplasma) and other quality specifications and criteria prior to release and preparation of the Certificate of Analysis.

### Storage of M3:BaseA™ Media

M3:BaseA™ is refrigerated at 2°C to 8°C when not in use. Do not freeze. The shelf-life is 18 months from the manufacturing date.

**Table 2. Human Tissues and Cells in M3™ Media for Oncology and Regenerative Medicine Clinical and Research Applications**

Human Tissues	Primary Culture Cell Types or Cell Lines [Media]
Adipose (Fat)	Mesenchymal Stem Cells; Stromal vascular fraction regenerative cells [M3:10™]; adipose cells [M3:30™]
Bone Marrow; Bone, Cartilage, Adipocytes	Hematopoietic and mesenchymal stem cells; various types of renewable progenitor cells; Endothelial cells; entire population [M3:20™]; subsets of cells in other M3™ media; induced bone and cartilage and adipocyte outgrowth and/or induction of differentiation
Colon	Primary epithelial and/or mesenchymal support cells [M3:2™] [M3:10™] and INCELL Cell Line NCM460 [M3:10™]
Gastrointestinal	Primary epithelial cells and/or mesenchymal support cells; [M3:2™] [M3:5™] [M3:10™]
Kidney	Primary epithelial cells and/or mesenchymal support cells; [M3:2™] [M3:5™] [M3:10™]
Liver	Primary epithelial cells and/or mesenchymal support cells; [M3:2™] [M3:5™] [M3:10™]
Muscles (Heart; Peripheral; Smooth)	Pericytes; Mesenchymal or Stromal Stem Cells; regenerative cells [M3:10™]
Nucleus pulposus (NP) Intervertebral Disc	NP stem cells; annulus chondrocytes and mesenchymal stem cells; various types progenitor cells [M3:10™]; etc.
Pancreas	Pancreatic islet beta and acinar cells [M3:5™]; etc.
Peripheral or apheresis blood	Circulating or mesenchymal cells; endothelial cells [M3:20™]; subsets of cells in other M3™ media formulas
Placenta	Hematopoietic, endothelial and mesenchymal stem cells; trophoblasts; syncytiotrophoblasts; various renewable progenitor cells; [M3:10™]; others
Skin (adult; foreskin)	Epidermal keratinocytes co-cultures; Dermal Fibroblasts; Mesenchymal cells [M3:10™]; others
Tumors; various	Epithelial, mesenchymal, lymphoid; [M3:10™]; others
Umbilical Cord	Hematopoietic, endothelial and mesenchymal cells; various types of renewable progenitor cells; [M3:10™]; etc.

**Table 3. M3™ Complete, Supplemented Media Have Been Used for Animal Tissues and Cells Cultured for Biomedical Research**

Cells and Tissues Derived from Adult, Newborn and/or Fetal Sources	
Animal Tissues	Species & Cultured Cell Types or Cell Lines [Media]
Adipose (Fat)	Rat, mouse, hamster, rabbit; Mesenchymal Stem Cells; Stromal vascular fraction regenerative cells [M3:10™]; adipose cells [M3:30™]
Bone Marrow	Rat, mouse, hamster, rabbit; Hematopoietic and mesenchymal stem cells; various types of renewable progenitor cells; Endothelial cells; entire population [M3:20™]; subsets of cells in other M3™ media
Brain & Neural (Spinal)	Rat, mouse; Progenitors; induced differentiation; [M3:5™] [M3:10™]
Colon; Gastrointestinal	Rat, mouse, hamster; Primary epithelial and/or mesenchymal support cells [M3:2™]; [M3:5™]; [M3:10™] or complex tissues in organ-like cultures
Kidney	Rat, mouse, hamster; Primary epithelial cells and/or mesenchymal support cells; [M3:2™]; [M3:5™]; [M3:10™]
Liver	Rat, mouse, hamster; Primary epithelial cells and/or mesenchymal support cells; [M3:2™]; [M3:5™]; [M3:10™]
Muscles (Peripheral; Heart; Smooth)	Rat, mouse, hamster, rabbit; Pericytes; Mesenchymal or Stromal Stem Cells; regenerative cells [M3:10™]
Pancreas; Other Neuroendocrine	Rat, mouse, hamster; pancreatic islet beta and acinar cells [M3:5™]; other organs (e.g., adrenal)
Peripheral or apheresis blood	Rat, mouse, hamster, rabbit; Circulating or mesenchymal cells; endothelial cells [M3:20™]
Skin (adult; newborn)	Epidermal keratinocytes co-cultures; Dermal Fibroblasts; Mesenchymal cells [M3:10™]; others
Tumors; various	Rat, mouse, hamster; epithelial, mesenchymal, lymphoid; [M3:10™]; etc.

Legend to Tables 2 and 3. Supplemented M3 media formulations may contain various percentages of FBS added to M3Base™. Those media are designated as M3:{% serum}. As an example, M3:10 contains 10% v/v FBS. Some media are kept in stock, while others are special manufactured or made by the customers by adding the FBS to the media.

### Master Files Applications Note

The M3™ Family of media is in FDA Drug and Device Master Files but have not been tested by INCELL for any specific diagnostic or therapeutic use. To request use of a Master File call, FAX, or email to [info@incell.com](mailto:info@incell.com).

### Ordering: Contact INCELL Corporation

Toll Free: 800.364.1765  
[info@incell.com](mailto:info@incell.com)  
 FAX: 210.877.0200

### Technical Assistance

The scientists at INCELL are available to discuss the media or special needs of your cells, and to assist you in your cell culture applications. Call 1-800-364-1765 or e-mail [info@incell.com](mailto:info@incell.com).

