

Cell Culture Media Product Information

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INTENDED USE

For *in vitro* Diagnostic Use

CellPro Labs offers two cell culture media types, Eagles Minimum Essential Medium (MEM) and *Chlamydia* Isolation Medium (CIM). Cell culture media products are “Ready to Use” solutions that are formulated to promote the growth and maintenance of CellPro Labs cell line products.

PRODUCT DESCRIPTION

CellPro Labs cell culture media supply the cells with the required nutrients to promote growth and cell maintenance during the incubation period. Each medium may contain the following additives.

- Fetal Bovine Serum (FBS) delivers nutrients, growth and attachment factors and protects cells from oxidative damage and apoptosis.
- Antimicrobial supplements are used to prevent bacteria, fungal and yeast contamination of cell cultures. Penicillin inhibits bacterial cell wall synthesis in Gram-positive bacteria. Gentamicin destabilizes the bacterial cell membrane of Gram-positive and Gram-negative bacteria. Streptomycin is a protein synthesis inhibitor that inhibits growth of Gram-positive and Gram-negative bacteria. Amphotericin B forms channels in the cell membranes of fungi and yeasts.
- Cycloheximide is added to CIM to depress cell metabolism and enhance *Chlamydia* growth.
- HEPES (N-2-hydroxyethylpiperazine-N-2-ethane sulfonic acid) is added to increase the buffer strength of the medium and raise the maximum buffering range when cell culture requires extended periods of manipulation outside of a CO₂ incubator.
- Glucose, a carbon and energy source, is added to CIM to enhance the growth and isolation of *Chlamydia*.

Cell culture media products are “Ready to Use” solutions provided in 50 mL, 100 mL and 500 mL packaging formats.

PROCEDURE

- Remove old cell culture media from the cells. Add enough new cell culture media to the cells to ensure the cell monolayer is completely covered.
- The cell culture media should be replaced if the pH changed drastically (pink-orange to yellow or purple).

Routinely Available Cell Culture Media

Cell Culture Media	FBS	Antimicrobial Supplement				HEPES (20mM)	Cycloheximide (2 µg/mL)	Glucose (4.5 g/L)
		Penicillin (50 Units/mL)	Streptomycin (50 µg/mL)	Gentamicin (10 µg/mL)	Amphotericin B (2.5 µg/mL)			
MEM-0	0%	•	•	•	•	•		
MEM-2	2%	•	•	•	•	•		
MEM-5	5%	•	•	•	•	•		
MEM-10	10%	•	•	•	•	•		
CIM-10	10%		•	•	•	•	•	•

MEM - Eagles Minimum Essential Medium

CIM - *Chlamydia* Isolation Medium

WARNINGS AND PRECAUTIONS

- Cell culture products may potentially transmit infectious agents. Products should be handled in accordance with the CDC-NIH manual, *Biosafety in Microbiological and Biomedical Laboratories*, 2007.
- Manipulations should be conducted in a Class II biosafety cabinet and gloves should be worn at all times.
- Cell cultures should be inactivated via disinfection (such as 0.05% sodium hypochlorite) or by autoclaving.
- All media is made fresh each week and has a 1 month shelf life.

STORAGE AND STABILITY

- CellPro Labs cell culture media should be stored at 2° to 8°C.
- Cell culture media should be examined to confirm the typical peach-to-pink color and lack of turbidity. Do not use any media exhibiting a yellow or purple color or any degree of turbidity as these are all indicators of possible contamination.

QUALITY CONTROL

Cell culture media is analyzed for sterility prior to shipping. A Lot Specification Sheet is supplied with each order to inform the end user of its quality control status.