

# Corning Cell Culture Media and Reagents

CORNING



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## Classical Media

### Growth Promotion and Cytotoxicity

Corning® classical media products undergo a variety of tests to determine functionality and toxicity using growth-promotion analysis. Product performance is measured by harvest-to-plant ratios or fold increase according to predetermined specifications.

### Physiochemical Properties

Liquid and powder classical media products are tested to determine pH and osmolality. Classical media powders are also tested for residual moisture. The pH and osmolality tests are performed according to specific procedures in which all equipment is calibrated using standards traceable to the National Institute of Standards and Technology.

### Biological Tests

Quality release testing of Corning liquid classical media products assures low levels of endotoxin, mycoplasma, and an absence of contamination.

**Endotoxin:** Classical media products are tested for bacterial endotoxin using the Limulus Amoebocyte Lysate (LAL) chromogenic assay. For release, each lot of standard liquid classical media must have an endotoxin level of <0.25 EU/mL. Classical media powder products must have an endotoxin level of <0.25 EU/mL when reconstituted to formula weight with low endotoxin water.

**Sterility:** All Corning liquid classical media products are tested for sterility.

**Mycoplasma:** Liquid classical media products are tested for mycoplasma using a large-volume method.



### DMEM (Dulbecco's Modification of Eagle's Medium)

Contains	Powder															
	10-013	10-014	10-017	10-027	10-101	10-102	15-013	15-017	15-018	17-204	17-205	17-207	50-003	50-013	90-013	90-113
L-glutamine	■	■	■	■									■	■		
Sodium pyruvate	■	■			■		■		■	■	■		■			
Phenol red	■	■	■	■	■	■	■	■	■	■		■	■	■		
L-cystine/L-methionine	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■
Phosphate	■	■	■	■			■	■	■	■	■	■	■	■	■	■
HEPES				■					■							
High glucose	■		■	■	■	■	■	■	■	■	■		■	■	■	
Sodium bicarbonate	■	■	■	■	■	■	■	■	■	■	■	■				
Corning® glutagro™					■	■										
Pyridoxine HCl													■	■	■	■

#### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-013-CVR	[+] 4.5 g/L Glucose, L-glutamine, sodium pyruvate	2°C to 8°C	18 m	500 mL	6
10-013-CMR	[+] 4.5 g/L Glucose, L-glutamine, sodium pyruvate	2°C to 8°C	18 m	1L	6
10-013-LXR	[+] 4.5 g/L Glucose, L-glutamine, sodium pyruvate	2°C to 8°C	18 m	10L	1
10-013-LBR	[+] 4.5 g/L Glucose, L-glutamine, sodium pyruvate	2°C to 8°C	18 m	20L	1
10-014-CVR	[+] 1.0 g/L Glucose, sodium pyruvate, L-glutamine	2°C to 8°C	18 m	500 mL	6
10-014-CMR	[+] 1.0 g/L Glucose, sodium pyruvate, L-glutamine	2°C to 8°C	18 m	1L	6
10-017-CVR	[+] 4.5 g/L Glucose, L-glutamine; [-] sodium pyruvate	2°C to 8°C	18 m	500 mL	6
10-017-CMR	[+] 4.5 g/L Glucose, L-glutamine; [-] sodium pyruvate	2°C to 8°C	18 m	1L	6
10-027-CVR	[+] 25 mM HEPES, 4.5 g/L glucose, L-glutamine; [-] sodium pyruvate	2°C to 8°C	18 m	500 mL	6
10-101-CVR	[+] Corning glutagro™ supplement, 4.5 g/L glucose, sodium pyruvate, phenol red	2°C to 8°C	12 m	500 mL	6
10-102-CVR	[+] Corning glutagro supplement, 4.5 g/L glucose, phenol red; [-] sodium pyruvate	2°C to 8°C	12 m	500 mL	6
15-013-CVR	[+] 4.5 g/L Glucose, sodium pyruvate; [-] L-glutamine	2°C to 8°C	18 m	500 mL	6
15-013-CMR	[+] 4.5 g/L Glucose, sodium pyruvate; [-] L-glutamine	2°C to 8°C	18 m	1L	6
15-013-LXR	[+] 4.5 g/L Glucose, sodium pyruvate; [-] L-glutamine	2°C to 8°C	18 m	10L	1
15-013-LBR	[+] 4.5 g/L Glucose, sodium pyruvate; [-] L-glutamine	2°C to 8°C	18 m	20L	1
15-017-CVR	[+] 4.5 g/L Glucose; [-] L-glutamine, sodium pyruvate	2°C to 8°C	18 m	500 mL	6
15-017-CMR	[+] 4.5 g/L Glucose; [-] L-glutamine, sodium pyruvate	2°C to 8°C	18 m	1L	6
15-018-CVR	[+] 4.5 g/L Glucose, sodium pyruvate, 25 mM HEPES; [-] L-glutamine	2°C to 8°C	18 m	500 mL	6
15-018-CMR	[+] 4.5 g/L Glucose, sodium pyruvate, 25 mM HEPES; [-] L-glutamine	2°C to 8°C	18 m	1L	6
17-204-CIR	[+] 4.5 g/L Glucose, sodium pyruvate; [-] L-glutamine, L-methionine, L-cystine	2°C to 8°C	18 m	100 mL	6
17-205-CVR	[+] 4.5 g/L Glucose, sodium pyruvate; [-] L-glutamine, phenol red	2°C to 8°C	18 m	100 mL	6
17-207-CVR	[-] Glucose, L-glutamine, sodium pyruvate	2°C to 8°C	18 m	500 mL	6

#### Powder ⚡

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
50-003-PBR	[+] 4.5 g/L Glucose, L-glutamine, sodium pyruvate; [-] sodium bicarbonate	2°C to 8°C	36 m	10L	1
50-003-PCR	[+] 4.5 g/L Glucose, L-glutamine, sodium pyruvate; [-] sodium bicarbonate	2°C to 8°C	36 m	50L	1
50-013-PBR	[+] 4.5 g/L Glucose, L-glutamine; [-] sodium pyruvate, sodium bicarbonate	2°C to 8°C	36 m	10L	1
50-013-PCR	[+] 4.5 g/L Glucose, L-glutamine; [-] sodium pyruvate, sodium bicarbonate	2°C to 8°C	36 m	50L	1
90-013-PBR	[+] 4.5 g/L Glucose; [-] sodium bicarbonate, L-glutamine, sodium pyruvate, phenol red	2°C to 8°C	36 m	10L	1
90-113-PBR	[-] Sodium bicarbonate, glucose, L-glutamine, sodium pyruvate, phenol red	2°C to 8°C	36 m	10L	1

\*Powder media volume indicated is the reconstituted volume.

### DMEM/Ham's F-12 50/50 Mix

Contains	10-090	10-092	10-103	15-090	16-405	Powder	
						90-090	90-091
L-glutamine	■	■			■		
Sodium pyruvate	■	■	■	■	■	■	■
Phenol red	■	■	■	■			■
HEPES		■	■				
Sodium bicarbonate	■	■	■	■	■		
Corning® glutagro™			■				

#### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-090-CVR	[+] L-glutamine	2°C to 8°C	12 m	500 mL	6
10-090-CMR	[+] L-glutamine	2°C to 8°C	12 m	1L	6
10-092-CVR	[+] L-glutamine, 15 mM HEPES	2°C to 8°C	12 m	500 mL	6
10-092-CMR	[+] L-glutamine, 15 mM HEPES	2°C to 8°C	12 m	1L	6
16-405-CVR	[+] L-glutamine; [-] phenol red	2°C to 8°C	12 m	500 mL	6
15-090-CVR	[+] L-glutamine	2°C to 8°C	18 m	500 mL	6
15-090-CMR	[-] L-glutamine	2°C to 8°C	18 m	1L	6
10-103-CVR	[+] Corning glutagro™	2°C to 8°C	12 m	500 mL	6

#### Powder ⚡

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
90-090-PBR	[-] Sodium bicarbonate, L-glutamine, phenol red	2°C to 8°C	36 m	10L	6
90-091-PBR	[+] L-glutamine	2°C to 8°C	36 m	10L	6

### F-12K Nutrient Mixture (Kaighn's Modification), 1x

#### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-025-CVR	[+] L-glutamine	2°C to 8°C	12 m	500 mL	6

### Ham's F-10 Medium

#### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-070-CVR	[+] L-glutamine	2°C to 8°C	12 m	500 mL	6

### Ham's F-12 Medium

#### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-080-CVR	[+] L-glutamine	2°C to 8°C	12 m	500 mL	6
10-080-CMR	[+] L-glutamine	2°C to 8°C	12 m	1L	6

#### Powder ⚡

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
50-040-PBR	[+] L-glutamine; [-] sodium bicarbonate	2°C to 8°C	36 m	10L	1

\*Powder media volume indicated is the reconstituted volume

### Improved MEM (Richter's Modification), 1x

#### Liquid

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-024-CVR	[+] L-glutamine	2°C to 8°C	12 m	500 mL	6
10-026-CVR	[+] L-glutamine; [-] phenol red	2°C to 8°C	12 m	500 mL	6

### IMDM (Iscove's Modification of DMEM), 1x

Contains	10-016	15-016
L-glutamine	■	
Sodium pyruvate	■	■
Phenol red	■	■
Pyridoxine HCl	■	■
Sodium bicarbonate	■	■

#### Liquid

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-016-CVR	[+] L-glutamine and 25 mM HEPES; [-] α-thioglycerol, β-mercaptoethanol	2°C to 8°C	12 m	500 mL	6
10-016-CMR	[+] L-glutamine and 25 mM HEPES; [-] α-thioglycerol, β-mercaptoethanol	2°C to 8°C	12 m	1L	6
15-016-CVR	[+] 25 mM HEPES; [-] α-thioglycerol, β-mercaptoethanol, L-glutamine	2°C to 8°C	12 m	500 mL	6

#### Powder

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
50-016-PBR	[+] 25 mM HEPES; [-] α-thioglycerol, β-mercaptoethanol, sodium bicarbonate	2°C to 8°C	36 m	10L	1

### Leibovitz's L-15 (Modification), 1x

#### Liquid

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-045-CVR	[+] L-glutamine	2°C to 8°C	12 m	500 mL	6

#### Powder

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
50-045-PBR	[+] L-glutamine	2°C to 8°C	12 m	10L	1

### MCDB 131, 1x

#### Liquid

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
15-100-CVR	[-] L-glutamine	2°C to 8°C	12 m	500 mL	6

### McCoy's 5A (Iwaketa and Grace Modification), 1x

Contains	10-050	10-051
L-glutamine	■	■
Phenol red	■	■
HEPES		■
Sodium bicarbonate	■	■

#### Liquid

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-050-CVR	[+] L-glutamine	2°C to 8°C	18 m	500 mL	6
10-051-CIR	[+] L-glutamine, 25 mM HEPES	2°C to 8°C	18 m	100 mL	6

### Medium 199 (Modification)

Contains	Powder		
	10-060	50-050	90-050
L-glutamine	■	■	
Phenol red		■	
Earle's salts	■	■	■
Hank's salts			
Sodium bicarbonate			

#### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-060-CVR	[+] Earle's salts, L-glutamine	2°C to 8°C	18 m	500 mL	6

#### Powder ⚡

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
50-050-PBR	[+] Earle's salts, L-glutamine; [-] sodium bicarbonate	2°C to 8°C	36 m	10L	1
90-050-PBR	[+] Earle's salts; [-] sodium bicarbonate, L-glutamine, phenol red	2°C to 8°C	36 m	10L	1

### MEM (Minimum Essential Medium)

Contains	Powder								
	10-009	10-010	15-010	15-015	17-305	50-010	50-011	51-010	90-009
L-glutamine	■	■				■			
Phenol red		■	■	■		■	■	■	
L-Methionine		■	■	■	■				
Calcium and magnesium		■	■		■				
Sodium bicarbonate	■	■	■	■	■				
Non-essential amino acids	■								
Sodium pyruvate	■								
Earle's salts						■	■	■	■
Hank's salts									

#### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-009-CVR	[+] Sodium bicarbonate, NEAA, L-glutamine, sodium pyruvate	2°C to 8°C	18 m	500 mL	6
10-010-CVR	[+] Earle's salts, L-glutamine	2°C to 8°C	18 m	500 mL	6
10-010-CMR	[+] Earle's salts, L-glutamine	2°C to 8°C	18 m	1L	6
15-010-CVR	[+] Earle's salts; [-] L-glutamine	2°C to 8°C	18 m	500 mL	6
15-010-CMR	[+] Earle's salts; [-] L-glutamine	2°C to 8°C	18 m	1L	6
15-015-CVR	[-] L-glutamine, calcium, magnesium	2°C to 8°C	18 m	500 mL	6
17-305-CVR	[+] Earle's salts; [-] L-glutamine, phenol red	2°C to 8°C	18 m	500 mL	6

#### Powder ⚡

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
50-010-PBR	[+] Earle's salts, L-glutamine; [-] sodium bicarbonate	2°C to 8°C	36 m	10L	1
50-010-PCR	[+] Earle's salts, L-glutamine; [-] sodium bicarbonate	2°C to 8°C	36 m	50L	1
50-011-PBR	[+] Earle's salts, L-glutamine, NEAA; [-] sodium bicarbonate	2°C to 8°C	36 m	10L	1
50-011-PCR	[+] Earle's salts, L-glutamine, NEAA; [-] sodium bicarbonate	2°C to 8°C	36 m	50L	1
51-010-PCR	[+] Earle's salts; [-] sodium bicarbonate, L-glutamine	2°C to 8°C	36 m	50L	1
90-009-PBR	[+] Earle's salts; [-] L-glutamine, phenol red, sodium bicarbonate	2°C to 8°C	36 m	10L	1

\*Powder media volume indicated is the reconstituted volume

### CMRL 1066

#### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
15-110-CVR	[-] L-glutamine	2°C to 8°C	12 m	500 mL	6

\*Powder media volume indicated is the reconstituted volume



## MEM (Minimum Essential Medium) Alpha Medium

Contains			Powder
	10-022	15-012	50-012
L-glutamine	■		■
Phenol red	■	■	■
Nucleosides	■		
Sodium pyruvate	■	■	■
Sodium bicarbonate	■	■	

### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-022-CVR	[+] Earle's salts, ribonucleosides, deoxyribonucleosides, L-glutamine	2°C to 8°C	12 m	500 mL	6
15-012-CVR	[+] Earle's salts; [-] ribonucleosides, deoxyribonucleosides, L-glutamine	2°C to 8°C	18 m	500 mL	6

### Powder ⚡

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
50-012-PCR	[+] Earle's salts, L-glutamine ; [-] ribonucleosides, deoxyribonucleosides, sodium bicarbonate	2°C to 8°C	36 m	50L	1

## RPMI 1640

Contains									Powder	
	10-040	10-041	10-043	10-104	15-040	15-041	17-104	17-105	50-020	90-022
L-glutamine	■	■	■						■	
Phenol red	■	■	■	■	■	■	■		■	
HEPES		■				■				
L-cystine/L-methionine	■	■	■	■	■	■		■	■	
Sodium bicarbonate	■	■	■	■	■	■	■	■		
Corning® glutagro™				■						

### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
10-040-CVR	[+] L-glutamine	2°C to 8°C	18 m	500 mL	6
10-040-CMR	[+] L-glutamine	2°C to 8°C	18 m	1L	6
10-040-LXR	[+] L-glutamine	2°C to 8°C	18 m	10L	6
10-040-LBR	[+] L-glutamine	2°C to 8°C	18 m	20L	6
10-041-CVR	[+] L-glutamine and 25 mM HEPES	2°C to 8°C	18 m	500 mL	6
10-041-CMR	[+] L-glutamine and 25 mM HEPES	2°C to 8°C	18 m	1L	6
10-043-CVR	[+] L-glutamine; [-] glucose	2°C to 8°C	18 m	500 mL	6
10-104-CVR	[+] Corning glutagro™, phenol red	2°C to 8°C	18 m	500 mL	6
15-040-CVR	[-] L-glutamine	2°C to 8°C	18 m	500 mL	6
15-040-CMR	[-] L-glutamine	2°C to 8°C	18 m	1L	6
15-040-LBR	[-] L-glutamine	2°C to 8°C	18 m	20L	1
15-041-CVR	[+] 25 mM HEPES; [-] L-glutamine	2°C to 8°C	18 m	500 mL	6
17-104-CIR	[-] L-glutamine, L-methionine, L-cystine	2°C to 8°C	18 m	100 mL	6
17-105-CVR	[-] L-glutamine, phenol red	2°C to 8°C	18 m	500 mL	6

### Powder ⚡

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
50-020-PBR	[+] L-glutamine; [-] sodium bicarbonate	2°C to 8°C	36 m	10L	1
50-020-PCR	[+] L-glutamine; [-] sodium bicarbonate	2°C to 8°C	36 m	50L	1
90-022-PBR	[-] L-glutamine, phenol red, sodium bicarbonate	2°C to 8°C	36 m	10L	1

\*Powder media volume indicated is the reconstituted volume.

## INSECT MEDIA

### Grace's Insect Basal Medium (Vaughn Modification)

Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
13-200-CVR	[+] L-glutamine; [-] insect hemolymph	2 to 8°C	12 m	500 mL	6

### Hink's TNM-FH Medium (Modification) (Supplemented Grace's Medium)

Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
13-100-CVR	[+] L-glutamine, lactalbumin hydrolysate, UF yeast extract; [-] insect hemolymph	2 to 8°C	12 m	500 mL	6

## Buffered Salt Solutions

Buffered salt solutions are made to a physiological pH and salt concentration. They are used alone or in combination with other agents for washing tissues and cells. Buffered salt solutions most commonly include sodium, potassium, calcium, magnesium, and chloride. They provide the cells with water and inorganic ions, while maintaining a physiological pH and osmotic pressure.

Although there have been many modifications to the original formulas to produce fully defined media, salt solutions still play an important role in tissue culture. A salt solution's basic functions, to maintain the pH and osmotic balance in the medium and to provide the cells with water and essential inorganic ions, are as valuable today as when it was first developed a century ago.



### DPBS (Dulbecco's Phosphate Buffered Saline)

Contains	20-030	20-031	21-030	21-031	Powder
					55-031
Calcium	■		■		
Magnesium	■		■		
Potassium chloride	■	■	■	■	■

#### Liquid 📌

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
20-030-CVR	[+] Calcium and magnesium, 10x	2°C to 30°C	18 m	500 mL	6
20-031-CVR	[-] Calcium and magnesium, 10x	2°C to 30°C	18 m	500 mL	6
21-030-CVR	[+] Calcium and magnesium, 1x	2°C to 30°C	36 m	500 mL	6
21-030-CMR	[+] Calcium and magnesium, 1x	2°C to 30°C	36 m	1L	6
21-031-CVR	[-] Calcium and magnesium, 1x	2°C to 30°C	36 m	500 mL	6
21-031-CMR	[-] Calcium and magnesium, 1x	2°C to 30°C	36 m	1L	6
21-031-LXR	[-] Calcium and magnesium, 1x	2°C to 30°C	36 m	10L	1
21-031-LBR	[-] Calcium and magnesium, 1x	2°C to 30°C	36 m	20L	1

#### Powder ⚗

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
55-031-PBR	[-] Calcium and magnesium	2°C to 8°C	36 m	10L	1
55-031-PCR	[-] Calcium and magnesium	2°C to 8°C	36 m	50L	1

\*Powder media volume indicated is the reconstituted volume

### PBS (Phosphate Buffered Saline)

#### Liquid 📌

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
21-040-CVR	[-] Calcium and magnesium, pH 7.4 ± 0.1, 1x	2°C to 30°C	24 m	500 mL	6
21-040-CMR	[-] Calcium and magnesium, pH 7.4 ± 0.1, 1x	2°C to 30°C	24 m	1L	6
21-040-CMRX12	[-] Calcium and magnesium, pH 7.4 ± 0.1, 1x	2°C to 30°C	24 m	1L	12

### HBSS (Hank's Balanced Salt Solution)

Contains	20-021	20-023	21-020	21-021	21-022	21-023	Powder
							55-022
Calcium		■	■			■	
Magnesium		■	■			■	
Phenol red	■		■	■			
Sodium bicarbonate			■	■	■	■	

#### Liquid ♦

Cat. No.	Description	Storage	Shelf Life	Size	Qty/Pk
20-021-CVR	[-] Sodium bicarbonate, calcium, magnesium	2°C to 30°C	36 m	500 mL	6
20-023-CVR	[+] Calcium, magnesium; [-] phenol red, sodium bicarbonate	2°C to 30°C	36 m	500 mL	6
21-020-CVR	[+] Calcium, magnesium, 1x	2°C to 30°C	36 m	500 mL	6
21-020-CMR	[+] Calcium, magnesium, 1x	2°C to 30°C	36 m	1L	6
21-021-CVR	[-] Calcium, magnesium, 1x	2°C to 30°C	36 m	500 mL	6
21-021-CMR	[-] Calcium, magnesium, 1x	2°C to 30°C	36 m	1L	6
21-022-CVR	[-] Calcium, magnesium, phenol red, 1x	2°C to 30°C	36 m	500 mL	6
21-022-CMR	[-] Calcium, magnesium, phenol red, 1x	2°C to 30°C	36 m	1L	6
21-023-CVR	[+] Calcium, magnesium; [-] phenol red, 1x	2°C to 30°C	36 m	500 mL	6
21-023-CMR	[+] Calcium, magnesium; [-] phenol red, 1x	2°C to 30°C	36 m	1L	6

#### Powder ⚗

Cat. No.	Description	Storage	Shelf Life	Size*	Qty/Pk
55-022-PBR	[-] Sodium bicarbonate, calcium, magnesium	2°C to 8°C	36 m	10L	1

\*Powder media volume indicated is the reconstituted volume

**Nous contacter**



Service client - commande : [commande@ozyyme.fr](mailto:commande@ozyyme.fr)  
 Service technique :  
 Réactifs : 01 34 60 60 24 - [tech@ozyyme.fr](mailto:tech@ozyyme.fr)  
 Instrumentation : 01 30 85 92 88 - [instrum@ozyyme.fr](mailto:instrum@ozyyme.fr)