

BioWhittaker™ Classical Media for Consistent Cell Culture Results



BioWhittaker™ Classical Media

BioWhittaker™ Media and Reagents

- **Premium quality** — The finest workmanship and materials give you confidence in your results
- **World-class quality systems** — Designed to meet even the most rigorous standards of biopharmaceutical customers
- **Outstanding selection** — Hundreds of formulations and packaging options available
- **Ultra-pure water** — Validated water-for-injection (WFI) system meets or exceeds all specifications for both the US and European Pharmacopeia
- **Trusted purity** — USP grade or equivalent chemical components used

Trust BioWhittaker™ quality, as others have for decades. You deserve the best. Order your RPMI, DMEM, MEM, DPBS or other cell culture products today.



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Classical Media

Dulbecco's Modified Eagle's Media (DMEM)

Cat. No. US	Cat. No. EU	Size	Without L-glutamine	With Sodium Pyruvate	Without Phenol Red	With HEPES	With 1.0 g/L Glucose	With 4.5 g/L Glucose	With UG I*
12-614F	BE12-614F	500 mL	■	■				■	
12-614Q	12-614Q	1 L	■	■				■	
12-604F	BE12-604F	500 mL		■				■	
12-604Q	12-604Q	1 L		■				■	
12-604F/U1	BE12-604F/U1	500 mL	■	■				■	■
12-917F	BE12-917F	500 mL	■	■	■			■	
12-707F	BE12-707F	500 mL	■	■			■		
12-708F	BE12-708F	500 mL	■	■		■	■		
12-709F	BE12-709F	500 mL	■	■		■		■	
12-733F	BE12-733F	500 mL	■					■	
12-741F	BE12-741F	500 mL						■	

* With UltraGlutamine™ I

DMEM is used in a wide range of mammalian cell culture applications. The high glucose version is well suited to high density suspension culture. The low glucose formula is used for adherent dependent cells.

Iscove's Modified Dulbecco's Medium (IMDM)

Cat. No. US	Cat. No. EU	Size	Without L-glutamine	With HEPES
12-722F	BE12-722F	500 mL		■
12-726F	BE12-726F	500 mL	■	■
12-915F	BE12-915F	500 mL		■

IMDM is suitable for fast growing cells. All formulas contain HEPES for added buffering.

DMEM:F12

Cat. No. US	Cat. No. EU	Size	Without L-glutamine	With HEPES	With 3.151 g/L Glucose	With UG I*
12-719F	BE12-719F	500 mL		■	■	
BE04-687Q	BE04-687Q	1 L			■	
BE04-687F/U1	BE04-687F/U1	500 mL	■		■	■

* With UltraGlutamine™ I

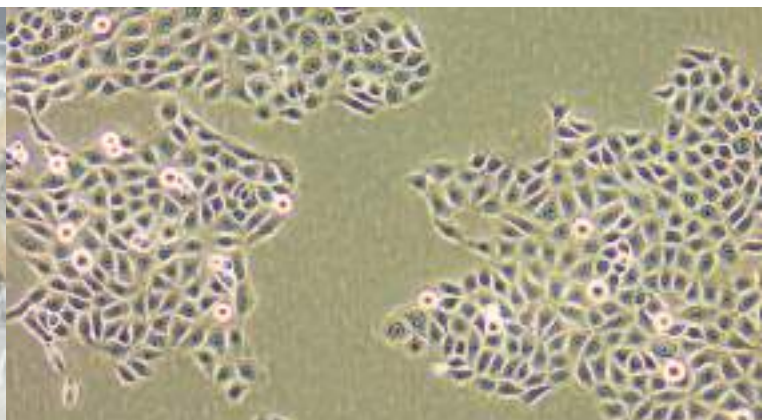
DMEM:F12 combines the richness of F12 with the higher component concentrations of DMEM. This media is well suited for clonal density cultures.

Minimum Essential Media – Eagle (MEM Eagle) (E-MEM)

Cat. No. US	Cat. No. EU	Size	With L-glutamine	With Sodium Pyruvate	Without Phenol Red	With HEPES	With HBSS	With EBSS	With NEAA	With Pen-strep-amph B	Without Na-bicarbonate	Without Calcium	With UG I*	With Nucleosides
12-169F (Alpha)	BE12-169F (Alpha)	500 mL		■				■	■					
BE02-002F	BE02-002F	500 mL		■				■	■				■	■
12-611F	BE12-611F	500 mL	■					■						
12-611Q	12-611Q	1 L	■					■						
12-125F	BE12-125F	500 mL						■						
12-125Q	12-125Q	1 L						■						
12-662F	BE12-662F	500 mL		■				■	■					
12-136F	BE12-136F	500 mL				■		■						
12-136Q	BE12-136Q	1 L				■		■						
12-736F	12-736F	500 mL	■			■		■	■	■				
12-684F (10x)	BE12-684F (10x)	500 mL									■			
12-668E (2x)	12-668E (2x)	100 mL			■			■						
BE12-668F (2x)	BE12-668F (2x)	500 mL			■			■						
06-174G	BE06-174G	450 mL	■					■	■			■		
12-127F	BE12-127F	500 mL					■							
12-137F	12-137F	500 mL				■	■							
04-719Q (Joklik's)	04-719Q (Joklik's)	1 L	■					■				■		

*With UltraGlutamine™ I

Minimum essential media (E-MEM) is suitable for a diverse spectrum of mammalian cell types. It is available with either Hanks' or Earle's salts. MEM-Hanks' (12-127F / BE12-127F or 12-137F) does not require a CO₂ enriched atmosphere. Joklik's modification is intended for suspension culture.



Insect Media

			With L-glutamine	With FBS	With Yeastolate	With Lactalbumin Hydrolysate	With Gentamicin
Cat. No. US	Cat. No. EU	Size					
Grace's Insect Media							
04-457F	04-457F	500 mL	■				
04-649F	04-649F	500 mL	■		■	■	■
Schneider's Drosophila Medium							
04-351Q	04-351Q	1 L	■		■		
TC-100 Insect Medium							
	BE02-011F	500 mL	■				

Medium 199

			With L-glutamine	With HEPES	With HBSS	With EBSS	With 1.4 g/L Na-bicarbonate	With 2.2 g/L Na-bicarbonate
Cat. No. US	Cat. No. EU	Size						
12-117F	BE12-117F	500 mL	■	■		■		■
12-117Q	12-117Q	1 L	■	■		■		■
12-118F	BE12-118F	500 mL	■	■	■		■	
12-119F	BE12-119F	500 mL	■			■		■
12-109F	BE12-109F	500 mL	■		■		■	

Medium 199 is formulated for chick embryo fibroblast culture. These five formulations require a CO₂ enriched atmosphere.

RPMI 1640

			With L-glutamine	Without Phenol Red	With HEPES	With Penicillin - Streptomycin	Without Na-bicarbonate	With MOPS Buffer	With Ultra-Glutamine I	Without D-glucose
Cat. No. US	Cat. No. EU	Size								
12-702F	BE12-702F	500 mL	■							
12-702Q	12-702Q	1 L	■							
	BE12-702F/U1	500 mL							■	
12-167F	BE12-167F	500 mL								
12-167Q	12-167Q	1 L								
12-115F	BE12-115F	500 mL	■		■					
	BE12-115F/U1	500 mL			■				■	
04-525F	04-525F	500 mL	■				■	■		
12-918F	BE12-918F	500 mL		■						
09-774E	09-774E	100 mL	■		■	■				
BE12-752F	BE12-752F	500 mL	■							■
	BE04-558F	500 mL			■					

RPMI is a general purpose media with a broad range of applications for mammalian cells, especially hematopoietic cells. RPMI with MOPS (04-525F) is for certain mycological assays.



Other Classical Media

Cat. No. US	Cat. No. EU	Description	Comments
Basel Medium Eagle (BME)			
12-105F	BE12-105F	with EBSS, without L-glutamine, 500 mL	A minimal medium suitable for a variety of cell types, it is a historical precursor to minimum essential media (MEM)
Glasgow Minimum Essential Medium (GMEM)			
12-739F	BE12-739F	With L-glutamine, 500 mL	Designed to support BHK-21 cells
Ham's F-10 Medium			
12-618F	BE12-618F	With L-glutamine, 500 mL	Developed for low density (clonal) growth of near-diploid CHO cells
	BE02-014F	With UltraGlutamine, without thymidine, 500 mL	Developed for ³ H-thymidine incorporation assays.
Ham's F-12 Medium			
12-615F	BE12-615F	With L-glutamine, 500 mL	Developed for low density (clonal) growth of CHO cells
L-15 (Leibovitz) Medium			
12-700F	BE12-700F	Without L-glutamine, 500 mL	Developed for fast growing tumor cells, this formula does not require a CO ₂ enriched atmosphere. The bicarbonate-free medium is buffered with elevated levels of amino acids.
12-700Q	12-700Q	Without L-glutamine, 1L	
12-669E	12-669E	(2x) except L-tyrosine (1x), without L-glutamine or phenol red (virus plaque medium), 100mL	
McCoy's 5A Medium			
12-688F	BE12-688F	With L-glutamine, 500 mL	Designed for human lymphocyte culture
12-168F	12-168F	With L-glutamine and HEPES, 500 mL	
NCTC-109			
12-923E	12-923E	With EBSS and L-glutamine, 100 mL	A complex formula used to supplement hybridoma medium
William's Medium E			
BE02-019F	BE02-019F	Without L-glutamine or phenol red, 500mL	
	BE12-761F	Without L-glutamine, 500 mL	

Reagents

Dulbecco's Phosphate Buffered Saline

Cat. No. US	Cat. No. EU	Size	Without Phenol Red	With Calcium and Magnesium	Without Calcium or Magnesium	With Glucose	With Sodium Pyruvate
17-513F	BE17-513F	500 mL	■	■			
17-512F	BE17-512F	500 mL	■		■		
17-5120	BE17-5120	1 L	■		■		
04-4790	04-4790	1 L	■	■		■	■
17-515F	BE17-515F	500 mL (10X)	■		■		
17-5150	BE17-5150	1 L (10X)	■		■		

Hanks' BSS (1X)

Cat. No. US	Cat. No. EU	Size	With Phenol Red	Without Phenol Red	With Calcium and Magnesium	Without Calcium or Magnesium
10-502F	BE10-502F	500mL	■			■
10-508F	BE10-508F	500 mL	■		■	
10-543F	BE10-543F	500 mL	■			■
10-527F	BE10-527F	500 mL		■	■	
10-547F	BE10-547F	500 mL		■		■
04-3150	04-3150	1 L		■		■



Buffered Saline

Cat. No. US	Cat. No. EU	Size	Without Phenol Red	Without Calcium or Magnesium	With HEPES
Phosphate Buffered Saline					
17-516F	BE17-516F	500 mL	■	■	
17-5160	BE17-5160	1 L	■	■	
17-5170	BE17-5170	1 L	■	■	
	BE02-017F	500 mL			
UltraSaline A					
12-747F	12-747F	500 mL	■		■

Penicillin-Streptomycin Mixtures

Cat. No. US	Cat. No. EU	Size	5,000 Units Penicillin – 5,000 µg Streptomycin	10,000 Units Penicillin – 10,000 µg Streptomycin	20,000 Units Penicillin – 20,000 µg Streptomycin	25,000 Units Penicillin – 25,000 µg Streptomycin	25 µg/mL Amphotericin B	With L-glutamine
17-603E	BE17-603E	100 mL	■					
17-602E	BE17-602E	100 mL		■				
17-602F	BE17-602F	500 mL		■				
17-718R	BE17-718R	4.5 mL				■		■
09-757F	09-757F	500 mL			■			
17-745H	17-745H	20 mL		■			■	
17-745E	17-745E	100 mL		■			■	

Description	Cat. No. US	Cat. No.hhtt EU	Size
L-glutamine (200 mM)			
	17-605E	BE17-605E	100 mL
(Hybridoma screened)	17-905C	17-905C	50 mL
UltraGlutamine™ I Supplement 200mM		BE17-605E/U1	100 mL
Water for Cell Culture Use			
Bottle	17-724F	BE17-724F	500 mL
Bottle	17-724Q	BE17-724Q	1 L
Bag	08-199F	BE02-038P20	20 L
Bag	08-199E	BE02-038P200	200 L
Supplements			
Insulin, transferrin, selenium (ITS) (500X)	17-838Z	17-838Z	5 mL
Insulin, transferrin, ethanolamine, selenium (ITES) (500X)	17-839Z	17-839Z	5 mL
MEM Eagle non-essential amino acid solution, 10 mM (100X)	13-114E	BE13-114E	100 mL
MEM Eagle vitamin mixture (100X)	13-607C	13-607C	50 mL

Description	Cat. No. US	Cat. No. EU	Size
Buffers and Reagents			
ACK lysing buffer (1X)	10-548E	10-548E	100 mL
Dextrose-Gelatin-Veronal (DGV)	10-539B	10-539B	500 mL
HEPES buffer (1M)	17-737E	BE17-737E	100 mL
Veronal buffer (5X)	12-624E	12-624E	100 mL
Trypan blue 0.4% solution	17-942E	17-942E	100 mL
Lymphocyte separation medium 1.0??	17-829E	BE17-829E	100 mL
	17-829F	17-829F	500 mL
Sodium pyruvate solution (100mM)	13-115E	BE13-115E	100 mL
Sodium bicarbonate, 7.5%	17-613E	BE17-613E	100 mL
Cell Harvesting Reagents			
Trypsin 1:250 (10X) 2.5% in Hanks' BSS without calcium or magnesium	17-160E	BE17-160E	100 mL
Trypsin Versene® (EDTA) mixture (1X)	17-161F	BE17-161F	500 mL
Trypsin Versene® (EDTA) mixture (10x)	BE02-007E	BE02-007E	100 mL
Versene® (EDTA) 0.02%	17-711E	BE17-711E	100 mL
Trypzean™ Trypsine EDTA (1x) Recombinant bovine trypsin (NAO)	BE02-034E	BE02-034E	100 mL
Antibiotics/Antimycotics			
Amphotericin B (250 µg/mL)	17-836R	17-836R	20 mL
	17-836E	17-836E	100 mL
Gentamicin sulfate 50 mg/mL, screw cap vial	17-518Z	17-518Z	1 X 10 mL
	17-518L	17-518L	10 X 10 mL
Gentamicin sulfate 50 mg/mL, crimp top vial	17-519Z	17-519Z	1 X 10 mL
Gentamicin sulfate 10 mg/mL, screw cap vial	17-519L	17-519L	10 X 10 mL
Freezing Medium			
Cryoprotective Freezing Medium	12-132A	12-132A	100 mL
ProFreeze™ CD (2x) Freeze Medium- Chemically Defined	12-769E	12-769E	100 mL
Serum Alternative			
HL-1™ Fetal Bovine Serum Substitute (100x) - Chemically Defined	77227	77227	10 mL



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