

Cell Culture Media Quick Reference Guide

CORNING

Cell Culture Essentials

Task	You will need*
Cell detachment	<ul style="list-style-type: none"> • Trypsin • Corning® Cellstripper® • Accutase®
Lymphocyte separation	<ul style="list-style-type: none"> • Lymphocyte Separation Medium (LSM)
Cell washing	<ul style="list-style-type: none"> • Phosphate-Buffered Saline (PBS) • Dulbecco's Phosphate-Buffered Saline (DPBS) • Hank's Balanced Salt Solution (HBSS)
Cell viability counts	<ul style="list-style-type: none"> • Trypan blue
Contamination: microbial	<ul style="list-style-type: none"> • Penicillin-Streptomycin solution • Gentamicin
Contamination: fungal	<ul style="list-style-type: none"> • Amphotericin B
Contamination: microbial and/or fungal	<ul style="list-style-type: none"> • Antibiotic-Antimycotic solution
Contamination: mycoplasma	<ul style="list-style-type: none"> • Ciprofloxacin Hydrochloride
Cryopreservation	<ul style="list-style-type: none"> • Dimethyl Sulfoxide (DMSO)
Transfection**	<ul style="list-style-type: none"> • Corning® transfectagro™ Reduced Serum Medium • Dulbecco's Modification of Eagle's Medium (DMEM) without phenol red • DMEM/Ham's F-12 50/50 Mix • Minimum Essential Medium

*See product listing for more information

**Do not wash cells with DPBS/PBS prior to transfection

Common Cell Lines

The cell culture medium recommendations for these common cell lines are to be used only as a guideline, as these cells may be successfully propagated in other media. It is best to follow the recommendation of the cell repository.

Cell Line	Cell Type	Species	Tissue	Medium
3T6	Fibroblast	Mouse	Embryo	DMEM and 10% FBS
A549	Epithelial	Human	Lung carcinoma	F-12K and 10% FBS
A9	Fibroblast	Mouse	Connective tissue	DMEM and 10% FBS
AtT-20	Epithelial	Mouse	Pituitary tumor	F-10, 15% horse serum and 2.5% FBS
BALB/3T3	Fibroblast	Mouse	Embryo	DMEM and 10% FBS
BHK-21	Fibroblast	Hamster	Kidney	Glasgow's MEM and 10% FBS or MEM and 10% FBS plus NEAA
BHL-100	Epithelial	Human	Breast	McCoy's 5A and 10% FBS
BT	Fibroblast	Bovine	Turbinate cells	MEM and 10% FBS plus NEAA
Caco-2	Epithelial	Human	Colon adeno carcinoma	MEM and 20% FBS plus NEAA
Chang	Epithelial	Human	Liver	Basal Medium Eagle (BME) and 10% calf serum
CHO-K1	Epithelial	Hamster	Ovary	F-12 and 10% FBS
Clone 9	Epithelial	Rat	Liver	F-12K and 10% FBS
Clone M-3	Epithelial	Mouse	Melanoma	F-10, 15% horse serum and 2.5% FBS
COS-1, COS-3, COS-7	Fibroblast, SV40 transformed	Monkey	Kidney	DMEM and 10% FBS

Common Cell Lines, continued

Cell Line	Cell Type	Species	Tissue	Medium
CRFK	Epithelial	Cat	Kidney	MEM and 10% FBS plus NEAA
CV-1	Fibroblast	Monkey	Kidney	MEM and 10% FBS
D-17	Epithelial	Dog	Osteosarcoma	MEM and 10% FBS and NEAA
Daudi	Lymphoblast	Human	Blood from a lymphoma patient	RPMI-1640 and 10% FBS
EB-3	B Lymph	Human	Lymphoma	RPMI-1640 and 10% FBS
GH1, GH3	Epithelial	Rat	Pituitary tumor	F-10, 15% horse serum, and 2.5% FBS
H9	Lymphoblast	Human	T-cell lymphoma	RPMI-1640 and 20% FBS
HaK	Epithelial	Hamster	Kidney	BME and 10% calf serum
HCT-15	Epithelial	Human	Colorectal adenocarcinoma	RPMI-1640 and 10% FBS
HEK-293	Unknown	Human	Embryonic kidney	MEM and 10% FBS plus NEAA
HeLa	Epithelial	Human	Cervix carcinoma	MEM and 10% FBS plus NEAA (in suspension, S-MEM)
HEp-2	Epithelial	Human	Larynx carcinoma (suspected HeLa contaminated)	MEM and 10% FBS
HL-60	Lymphoblast	Human	Promyelocytic leukemia	RPMI-1640 and 20% FBS
HT-1080	Epithelial	Human	Fibrosarcoma	MEM and 10% FBS plus NEAA
HT-29	Epithelial	Human	Colon adenocarcinoma	McCoy's 5A and 10% FBS
HUVEC	Endothelial	Human	Umbilical vein	F12K, 10% FBS, Heparin 100 µg/mL, endothelial cell growth supplement 50 mg/mL
I-10	Epithelial	Mouse	Testicular tumor	F-10, 15% horse serum, and 2.5% FBS
IM-9	Lymphoblast	Human	Marrow from myeloma patient	RPMI-1640 and 10% FBS
JEG-2	Epithelial	Human	Choriocarcinoma	MEM and 10% FBS
Jensen	Fibroblast	Rat	Sarcoma	McCoy's 5A and 5% FBS
Jurkat	Lymphoblast	Human	Lymphoma	RPMI-1640 and 10% FBS
K-562	Lymphoblast	Human	Myelogenous leukemia	RPMI-1640 and 10% FBS
KB	Epithelial	Human	Oral carcinoma	MEM and 10% FBS plus NEAA
KG-1	Myeloblast	Human	Marrow from erythroleukemia patient	Iscove's Modification of DMEM (IMDM) and 20% FBS
L2	Epithelial	Rat	Lung	F-12K and 10% FBS
LLC-WRC 256	Epithelial	Rat	Carcinoma	Medium 199 and 5% horse serum
McCoy	Fibroblast	Mouse	Unknown	MEM and 10% FBS
MCF7	Epithelial	Human	Breast adenocarcinoma	MEM and 10% FBS plus NEAA and 10 µg/mL insulin
MRC-5	Fibroblast	Human	Lung	MEM and 10% FBS plus NEAA
NIH-3T3	Fibroblast	Mouse	Embryo	DMEM and 10% FBS
Schneider 2 (S2), D.Mel-2		Fruit fly		Corning® insectagro® DS2 medium
Sf9, Sf21		Fall armyworm	Pupal ovary	Hink's TNM-FH and 10% FBS; insectagro Sf9
VERO	Epithelial	Monkey	Kidney	MEM and 10% FBS plus NEAA
WI-38	Epithelial	Human	Embryonic lung	BME and 10% FBS
WISH	Epithelial	Human	Amnion	BME and 10% FBS
XC	Epithelial	Rat	Sarcoma	MEM and 10% FBS plus NEAA
Y-1	Epithelial	Mouse	Tumor of adrenal	F-10, 15% horse serum, and 2.5% FBS

Ordering Information

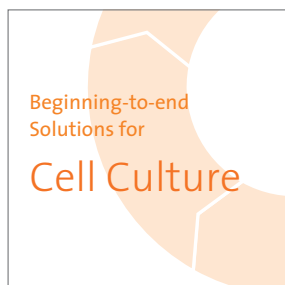
Corning® Cell Culture Media

Cat. No.	Description	Unit Size	Qty/Pk
25-050-CI	Trypsin 1x 0.25% Trypsin in HBSS without calcium and magnesium, Porcine Parvovirus tested	100 mL	6
25-051-CI	Trypsin EDTA 1x 0.05% Trypsin/0.53 mM EDTA in HBSS without calcium and magnesium, Porcine Parvovirus tested	100 mL	6
25-052-CI	Trypsin EDTA 1x 0.05% Trypsin/0.53 mM EDTA in HBSS without calcium and magnesium, Porcine Parvovirus tested	100 mL	6
25-052-CV	Trypsin EDTA 1x 0.05% Trypsin/0.53 mM EDTA in HBSS without calcium and magnesium, Porcine Parvovirus tested	500 mL	6
25-053-CI	Trypsin EDTA 1x 0.25% Trypsin/2.21 mM EDTA in HBSS without sodium bicarbonate, calcium and magnesium, Porcine Parvovirus tested	100 mL	6
25-054-CI	Trypsin 10x 2.5% Trypsin in HBSS without calcium, magnesium, and phenol red, Porcine Parvovirus tested	100 mL	6
25-056-CI	Corning Cellstripper®, Liquid	100 mL	6
25-072-CI	LSM (Lymphocyte Separation Medium)	100 mL	1
25-072-CV	LSM (Lymphocyte Separation Medium)	500 mL	1
21-040-CV	PBS (Phosphate-Buffered Saline), 1x without calcium and magnesium	500 mL	6
21-040-CM	PBS (Phosphate-Buffered Saline), 1x without calcium and magnesium	1 L	6
21-040-CMX12	PBS (Phosphate-Buffered Saline), 1x without calcium and magnesium	1 L	12
20-030-CV	DPBS (Dulbecco's Phosphate-Buffered Saline), 10x with calcium and magnesium	500 mL	6
20-031-CV	DPBS (Dulbecco's Phosphate-Buffered Saline), 10x without calcium and magnesium	500 mL	6
21-030-CV	DPBS (Dulbecco's Phosphate-Buffered Saline), 1x with calcium and magnesium	500 mL	6
21-030-CM	DPBS (Dulbecco's Phosphate-Buffered Saline), 1x with calcium and magnesium	1 L	6
21-031-CV	DPBS (Dulbecco's Phosphate-Buffered Saline), 1x without calcium and magnesium	500 mL	6
21-031-CM	DPBS (Dulbecco's Phosphate-Buffered Saline), 1x without calcium and magnesium	1 L	6
21-031-LX	DPBS (Dulbecco's Phosphate-Buffered Saline), 1x without calcium and magnesium	10 L	1
21-031-LB	DPBS (Dulbecco's Phosphate-Buffered Saline), 1x without calcium and magnesium	20 L	1
21-021-CV	HBSS (Hank's Balanced Salt Solution), 1x without calcium and magnesium	500 mL	6
21-021-CM	HBSS (Hank's Balanced Salt Solution), 1x without calcium and magnesium	1 L	6
21-022-CV	HBSS (Hank's Balanced Salt Solution), 1x without calcium, magnesium and phenol red	500 mL	6
21-022-CM	HBSS (Hank's Balanced Salt Solution), 1x without calcium, magnesium and phenol red	1 L	6
25-900-CI	Trypan Blue solution (w/v) in PBS 0.4%, (w/v) in normal saline (8.1 g/L NaCl with 0.6 g/L K ₂ HPO ₄)	100 mL	1
30-001-CI	Penicillin-Streptomycin solution, 50x 5,000 I.U. Penicillin (per mL), 5,000 µg/mL Streptomycin	100 mL	6
30-002-CI	Penicillin-Streptomycin solution, 100x 10,000 I.U. Penicillin, 10,000 µg/mL Streptomycin	100 mL	6
30-003-CI	Amphotericin B, liquid 250 µg/mL solubilized	50 mL	6
30-004-CI	Antibiotic-Antimycotic solution, 10,000 I.U. Penicillin (per mL) 10,000 µg/mL Streptomycin 25 µg/mL, Amphotericin with 8.5 g/L NaCl	100 mL	6
30-009-CI	Penicillin-Streptomycin-L-Glutamine, 100x 10,000 I.U. Penicillin (per mL), 10,000 µg/mL Streptomycin, 29.2 mg/mL L-glutamine	100 mL	6
61-098-CI	Gentamicin Sulfate, powder	100 mg	1
61-277-R	Ciprofloxacin Hydrochloride, powder	1g	1
25-950-CQC	DMSO (Dimethyl Sulfoxide)	250 mL	1
17-205-CV	DMEM (Dulbecco's Modification of Eagle's Medium) with 4.5 g/L glucose and sodium pyruvate without L-glutamine and phenol red	500 mL	6
90-013-PB	DMEM (Dulbecco's Modification of Eagle's Medium), Powder with 4.5 g/L glucose without sodium bicarbonate, L-glutamine, sodium pyruvate, and phenol red	20 L	1
90-113-PB	DMEM (Dulbecco's Modification of Eagle's Medium), Powder without sodium bicarbonate, glucose, L-glutamine, sodium pyruvate, and phenol red	20 L	1

Ordering Information, continued

Cat. No.	Description	Unit Size	Qty/Pk
16-405-CV	DMEM (Dulbecco's Modification of Eagle's Medium)/Ham's F-12 50/50 Mix with L-glutamine, without phenol red	500 mL	6
90-090-PB	DMEM (Dulbecco's Modification of Eagle's Medium)/Ham's F-12 50/50 Mix, Powder without sodium bicarbonate, L-glutamine, and phenol red	20 L	1
17-305-CV	MEM (Minimum Essential Medium) with Earle's salts, without L-glutamine and phenol red	500 mL	6

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At Corning, cells are in our culture. In our continuous efforts to improve efficiencies and develop new tools and technologies for life science researchers, we have scientists working in Corning R&D labs across the globe, doing what you do every day. From seeding starter cultures to expanding cells for assays, our technical experts understand your challenges and your increased need for more reliable cells and cellular material.

It is this expertise, plus a 160-year history of Corning innovation and manufacturing excellence, that puts us in a unique position to offer a beginning-to-end portfolio of high-quality, reliable cell culture consumables.

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Mediatech, Inc.

A Corning Subsidiary

9345 Discovery Boulevard
Manassas, VA 20109

t 800.235.5476

t 703.471.5955

f 703.467.9851

www.corning.com/lifesciences/media

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