

# Cell Culture Media Quick Reference Guide

## Cell Culture Essentials

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

\*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	BME (Basal Medium Eagle) 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

## Common Cell Lines, continued

Cell Line	Cell Type	Species	Tissue	Medium
COS-1, COS-3, COS-7	Fibroblast, SV40 transformed	Monkey	Kidney	DMEM and 10% FBS
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	IMDM (Iscove's Modification of DMEM) 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

VWR Cat. No.	Corning Cat. No.	Description	Unit Size	Qty/ Pk
45000-658	25-050-CI	Trypsin 1X 0.25% Trypsin in HBSS without calcium and magnesium, Porcine Parvovirus tested	100 mL	6
45001-082	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
45000-660	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
45000-662	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
45000-664	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
45000-666	25-054-CI	Trypsin 10X 2.5% Trypsin in HBSS without calcium, magnesium, and phenol red, Porcine Parvovirus tested	100 mL	6
45000-668	25-056-CI	Corning Cellstripper®, liquid	100 mL	6
10210-214	25-058-CI	Accutase® cell detachment solution	100 mL	1
45000-726	25-072-CI	LSM (Lymphocyte Separation Medium)	100 mL	1
45000-728	25-072-CV	LSM	500 mL	1
45000-446	21-040-CV	PBS (Phosphate-Buffered Saline), 1X, without calcium and magnesium	500 mL	6
45000-448	21-040-CM	PBS, 1X, without calcium and magnesium	1 L	6
71002-822	21-040-CMX12	PBS, 1X, without calcium and magnesium	1 L	12
45000-426	20-030-CV	DPBS (Dulbecco's Phosphate-Buffered Saline), 10X, with calcium and magnesium	500 mL	6
45000-428	20-031-CV	DPBS, 10X, without calcium and magnesium	500 mL	6
45000-430	21-030-CV	DPBS, 1X, with calcium and magnesium	500 mL	6
45000-432	21-030-CM	DPBS, 1X, with calcium and magnesium	1 L	6
45000-434	21-031-CV	DPBS, 1X, without calcium and magnesium	500 mL	6
45000-436	21-031-CM	DPBS, 1X, without calcium and magnesium	1 L	6
45000-438	21-031-LX	DPBS, 1X, without calcium and magnesium	10 L	1
45000-440	21-031-LB	DPBS, 1X, without calcium and magnesium	20 L	1
45000-458	21-021-CV	HBSS (Hank's Balanced Salt Solution), 1X, without calcium and magnesium	500 mL	6
45000-460	21-021-CM	HBSS, 1X, without calcium and magnesium	1 L	6
45000-462	21-022-CV	HBSS, 1X, without calcium, magnesium and phenol red	500 mL	6
45000-464	21-022-CM	HBSS, 1X, without calcium, magnesium and phenol red	1 L	6
45000-717	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 <sub>2</sub> HPO <sub>4</sub> )	100 mL	1
45000-650	30-001-CI	Penicillin-Streptomycin solution, 50X 5,000 I.U. Penicillin (per mL), 5,000 µg/mL Streptomycin	100 mL	6
45000-652	30-002-CI	Penicillin-Streptomycin solution, 100X 10,000 I.U. Penicillin, 10,000 µg/mL Streptomycin	100 mL	6
45000-808	30-003-CF	Amphotericin B, liquid 250 µg/mL solubilized	50 mL	6
45000-616	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
45001-103	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
45000-632	61-098-RA	Gentamicin Sulfate, powder	100 mg	1
45000-620	61-277-RF	Ciprofloxacin Hydrochloride, powder	1g	1
45001-118	25-950-CQC	DMSO (Dimethyl Sulfoxide)	250 mL	1
45000-336	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
45000-526	90-013-PB	DMEM, powder with 4.5 g/L glucose, without sodium bicarbonate, L-glutamine, sodium pyruvate, and phenol red	20 L	1

## Ordering Information, continued

VWR Cat. No	Corning Cat. No.	Description	Unit Size	Qty/Pk
45000-534	90-113-PB	DMEM, powder, without sodium bicarbonate, glucose, L-glutamine, sodium pyruvate, and phenol red	20 L	1
45001-052	16-405-CV	DMEM/Ham's F-12 50/50 Mix with L-glutamine, without phenol red	500 mL	6
45000-540	90-090-PB	DMEM/Ham's F-12 50/50 Mix, powder, without sodium bicarbonate, L-glutamine, and phenol red	20 L	1
45000-388	17-305-CV	MEM (Minimum Essential Medium) with Earle's salts, without L-glutamine and phenol red	500 mL	6
45000-734	35-010-CV	FBS (Fetal Bovine Serum), regular, USDA-Approved Origin	500 mL	1
45001-106	35-015-CV	FBS, premium, US Origin	500 mL	1

**Warranty/Disclaimer:** Unless otherwise specified, all products are for research use only. Not intended for use in diagnostic or therapeutic procedures. Corning Life Sciences makes no claims regarding the performance of these products for clinical or diagnostic applications.

# CORNING

For additional product or technical information, visit [vwr.com/corning](http://vwr.com/corning), call 1.800.932.5000, or contact your VWR representative.



800 932 5000 | [VWR.COM](http://VWR.COM)

Prices, product, and/or services details are current when published and subject to change without notice. | Certain products or services may be limited by federal, state, provincial, or local regulations. | VWR, part of Avantor, makes no claims or warranties concerning sustainable/green products. Any claims concerning sustainable/green products are the sole claims of the manufacturer and not those of VWR International, LLC and/or Avantor, Inc. or affiliates. All prices are in US dollars unless otherwise noted. Offers valid in US, void where prohibited by law or company policy, while supplies last. | Trademarks are owned by Avantor, Inc. or its affiliates, unless otherwise noted. | Visit [vwr.com](http://vwr.com) to view our privacy policy, trademark owners, and additional disclaimers. © 2020 Avantor, Inc. All rights reserved.