

Stem cell culture media and reagents

Recognized and cited by leading stem cell researchers, Invitrogen provides reliable, high-quality serum-free cell culture products for working with stem cells. GIBCO® brand media has the broadest selection of specialty products that are optimized for stem cell populations, many of which are free of animal derived components. These media are designed to minimize adaptation time, maximize cell performance, and meet regulatory requirements. In addition, we are constantly introducing new innovations such as TrypLE™ Select which replaces animal trypsin for the dissociation of adherent mammalian cells. It works on a wide range of cells, requires minimal protocol changes, is room temperature stable and does not require inactivation with trypsin inhibitors or freezing.

Product	Cell type	Quantity	Cat. no.
Iscove's Modified Dubelcco's Medium (IMDM) (1X), liquid	All	500 ml	12440-053
	All	1 L	12400-046
Iscove's Modified Dubelcco's Medium (IMDM) (1X), liquid, contains GlutaMAX™	All	500 ml	31980-030
Dulbecco's Modified Eagle Medium (D-MEM) (1X), liquid (low glucose)	All	500 ml	11885-084
	All	1000 ml	11885-076
D-MEM/F-12 (1X), liquid, 1:1	All	500 ml	10565-018
D-MEM/F-12 Low Osmolality (1X), liquid, 1:1	ES	500 ml	12660-012
Opti-MEM® I Reduced-Serum Medium (1X), liquid	All	100 ml	31985-062
	All	500 ml	31985-070
OptiPRO™ SFM (1X), liquid	All	1000 ml	12309-019
CO ₂ -Independent Medium (1X), liquid	All	500 ml	18045-088
GlutaMAX™-I Supplement	All	100 ml	35050-061
	All	20 × 100 ml	35050-079
MEM Non-Essential Amino Acids Solution 10 mM (100X), liquid	All	100 ml	11140-050
Fetal Bovine Serum, ES Cell-Qualified FBS	ES	100 ml	16141-061
	ES	500 ml	16141-079
Fetal Bovine Serum, MSC Qualified FBS	MSC	100 ml	12662-011
	MSC	500 ml	12662-029
Antibiotic-Antimycotic (100X), liquid	All	100 ml	15240-062
Geneticin® Selective Antibiotic, liquid	All	100 ml	10131-027
	All	20 ml	10131-035
KnockOut™ Serum Replacement (KSR)	ESC	500 ml	10828-028
KnockOut™ D-MEM	ESC	500 ml	10829-018
B-27 Supplement Minus AO (50X), liquid	NSC	10 ml	10889-038
B-27 Supplement Minus Vitamin A (50X), liquid	NSC	10 ml	12587-010
B-27 Serum-Free supplement	NSC	10 ml	17504-044
Neurobasal™ Medium (1X), liquid	NSC	500 ml	21103-049
Neurobasal™ Medium (1X) Liquid without Phenol Red	NSC	500 ml	12348-017
Neurobasal™-A Medium (1X), liquid	NSC	500 ml	10888-022
Neurobasal™-A Medium (1X) Liquid without Phenol Red	NSC	500 ml	12349-015
Neurobasal™ Medium (1X), liquid	NSC	500 ml	21103-049
Neurobasal™ Medium (1X) Liquid without Phenol Red	NSC	500 ml	12348-017
Neurobasal™-A Medium (1X), liquid	NSC	500 ml	10888-022
Neurobasal™-A Medium (1X) Liquid without Phenol Red	NSC	500 ml	12349-015
AIM V® Medium, liquid (Research Grade w/ HSA)	HSC	500 ml	12055-091
AIM V® Medium, liquid (Research Grade w/HSA)	HSC	1 L	12055-083
AIM V® Medium, liquid (Therapeutic Grade)	HSC	1 L	087-0112DK
	HSC	10 L	087-0112BK
StemPro®-34 SFM (1X), liquid	HSC	500 ml	10639-011

Other expansion reagents

Product	Cell type	Quantity	Cat. no.
Trypsin-EDTA (0.5% Trypsin with EDTA 4Na) 10X	All	100 ml	15400-054
TrypLE™ Select Animal-Origin-Free Trypsin-Like Enzyme	All	100 ml	12563-011
TrypLE™ Select (1X), liquid	All	1000 ml	12563-029

Enzyme substrates and assays

Invitrogen provides a variety of kits and stains that are widely cited in stem cell literature. These tools are a critical component of stem cell research for understanding important functions including cell viability, proliferation, apoptosis, cell adhesion and signal transduction.

Product	Cell type	Quantity	Cat. no.
ATP Determination Kit, special packaging, 200–1000 assays	All	1 Kit	A22066
EnzChek® Protease Assay Kit, green fluorescence, 100–1000 assays	All	1 Kit	E6638
Amplex® Red Hydrogen Peroxide/Peroxidase Assay Kit, 500 assays	All	1 Kit	A22188
Vybrant® Apoptosis Assay Kit #12 (Vybrant® DyeCycle™ Violet/7-AAD), for flow cytometry, 200 assays	All	1 Kit	V35121
Trypan Blue Stain	All	100 ml	15250-061
MitoTracker® Red CMXRos, special packaging	All	50 µg	M-7512
ProLong® Gold Antifade Reagents	All	10 ml	P36930