

MSC Growth Medium
ORDERING INFORMATION

Product Name MSC Growth Medium (MSCGM)
Catalog No: **cAP-35**
Size: 500ml
Storage: 4°C

Description

Mesenchymal Stem Cell Growth Medium (MSCGM, cAP-035) is consisted of 450ml of Mesenchymal Stem Cell Basal Medium (MSCBM, cAP-036) and 50ml of FBS (10%) and a mixture recombinant growth factors optimized for MSC proliferation.

Shipping Condition: Ambient temperature (or blue ice, seasonally).

Storage Condition:

The MSCGM should be stored at 4°C. A change in color or appearance of precipitate may indicate deterioration.

Shelf Life: 2 months from the date of receipt under proper storage condition.

Related Products

Quick Coating Solution	cAP-01	240ml	Angio-Proteomie
Cell Freezing Solution (FBS)	cAP-22	50ml	Angio-Proteomie
Cell Freezing Solution (Non-FBS)	cAP-22B	50ml	Angio-Proteomie
HBSS w/o Ca ²⁺ , Mg ²⁺	cAP-11	100ml	Angio-Proteomie
Trypsin/EDTA Solution	cAP-23	100ml	Angio-Proteomie
Trypsin Neutralization Solution	cAP-28	100ml	Angio-Proteomie
ITS (100x)	cAP-26	10ml	Angio-Proteomie
L-Glutamine-MAXIMUM (100x)	cAP-27	100ml	Angio-Proteomie
Human Plasma Fibronectin Solution	cAP-42	1mg/ml	Angio-Proteomie
Bovine Type I Collagen Solution	cAP-17	100mg	Angio-Proteomie

Formulation (Next Page)

Components	Molecular Weight	Concentration (mg/L)	mM
Amino Acids			
Glycine	75	18.75	0.25
L-Alanine	89	4.45	0.049999997
L-Alanyl-L-Glutamine	217	542	2.497696
L-Arginine hydrochloride	211	147.5	0.69905216
L-Asparagine-H ₂ O	150	7.5	0.05
L-Aspartic acid	133	6.65	0.05
L-Cysteine hydrochloride-H ₂ O	176	17.56	0.09977272
L-Cystine 2HCl	313	31.29	0.09996805
L-Glutamic Acid	147	7.35	0.05
L-Histidine hydrochloride-H ₂ O	210	31.48	0.14990476
L-Isoleucine	131	54.47	0.41580153
L-Leucine	131	59.05	0.45076334
L-Lysine hydrochloride	183	91.25	0.4986339
L-Methionine	149	17.24	0.11570469
L-Phenylalanine	165	35.48	0.2150303
L-Proline	115	17.25	0.15
L-Serine	105	26.25	0.25
L-Threonine	119	53.45	0.44915968
L-Tryptophan	204	9.02	0.04421569
L-Tyrosine disodium salt dihydrate	261	55.79	0.21375479
L-Valine	117	52.85	0.4517094
Vitamins			
Biotin	244	0.0035	1.43E-05
Choline chloride	140	8.98	0.06414285
D-Calcium pantothenate	477	2.24	0.004696017
Folic Acid	441	2.65	0.006009071
Niacinamide	122	2.02	0.016557377
Pyridoxine hydrochloride	206	2.031	0.009859223
Riboflavin	376	0.219	5.82E-04
Thiamine hydrochloride	337	2.17	0.006439169
Vitamin B12	1355	0.68	5.02E-04
i-Inositol	180	12.6	0.07
Inorganic Salts			
Calcium Chloride (CaCl ₂) (anhyd.)	111	116.6	1.0504504
Cupric sulfate (CuSO ₄ ·5H ₂ O)	250	0.0013	5.20E-06
Ferric Nitrate (Fe(NO ₃) ₃ ·9H ₂ O)	404	0.05	1.24E-04
Ferric sulfate (FeSO ₄ ·7H ₂ O)	278	0.417	0.0015
Magnesium Chloride (anhydrous)	95	28.64	0.30147368
Magnesium Sulfate (MgSO ₄) (anhyd.)	120	48.84	0.407
Potassium Chloride (KCl)	75	311.8	4.1573334
Sodium Bicarbonate (NaHCO ₃)	84	2438	29.02381
Sodium Chloride (NaCl)	58	6999.5	120.68104
Sodium Phosphate dibasic (Na ₂ HPO ₄) anhydrous	142	71.02	0.50014085
Sodium Phosphate monobasic (NaH ₂ PO ₄ ·H ₂ O)	138	62.5	0.45289856
Zinc sulfate (ZnSO ₄ ·7H ₂ O)	288	0.432	0.0015
Other Components			
D-Glucose (Dextrose)	180	3151	17.505556
Hypoxanthine Na	159	2.39	0.015031448
Linoleic Acid	280	0.042	1.50E-04
Lipoic Acid	206	0.105	5.10E-04
Phenol Red	376.4	8.1	0.021519661
Putrescine 2HCl	161	0.081	5.03E-04
Sodium Pyruvate	110	55	0.5
Thymidine	242	0.365	0.001508265

THESE PRODUCTS ARE FOR RESEARCH USE ONLY

Caution: Handling human and animal tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, or pathogens, diagnostic tests are not necessarily 100% accurate; therefore proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working with these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.