MSC Serum Free Media (Passage of Umbilical Cord-Cryopreserved Cells and High-Passage Cells)

Nomenclature	Specification	Cat No.	Brief description of use	Expiry date
MSC Serum Free Basal Medium	500 mL/vial	1100103		2- 8°C, 12 months
MSC Serum Free Medium Supplement 2 (Passage of Umbilical Cord-Cryopreserved Cells and High-Passage Cells)	5 mL/vial	NC0105.S	mL NC0103 for subculturing of umbilical cord-derived cryopreserved cells and high-passage cells.	-20°C, 12 months

Stem Cell Digestion Products

Nomenclature	Specification	Cat No.	Brief description of use	Expiry date
Stem Cell Mild Digestive Enzyme	500 mL/vial	NC1004.1	It is specially used for stem cell digestion, has mild effect and can improve the cell viability.	2- 8°C, 12 months
Stem Cell Mild Digestive Enzyme	100 mL/vial		It is specially used for stem cell digestion, has mild effect and can improve the cell viability.	2- 8°C, 12 months

Stem Cell Cryopreserved Products

Nomenclature	Specification	Cat No.	Brief description of use	Expiry date
Serum Free Cell Cryopreservation Media	100 mL/vial	NC1001.1	It supports storage of high- density cryopreserved stem cells and immune cells.	2- 8°C, 12 months
GMP Cell Cryopreservation Media	100 mL/vial	NC1010	It supports storage of high- density cryopreserved stem cells and immune cells. No protein, no DMSO, pharmaceutical injection grade drug substance, higher safety.	2- 8°C, 12 months

YOCON 友康®

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Yocon Biology Public Account



Yocon Biology



Not only for performance, but focus more on safety

MSC Serum Free Media

(Passage of Umbilical Cord-Cryopreserved Cells and High-Passage Cells)

US FDA Class II Medical Device Registration No. 510(K): K190983 NMPA Pharmaceutical Excipients Registration No.: F20190000508



The MSC Serum Free Media have passed biocompatibility and toxicity tests
Powerfully support IND application and clinical studies

MSC passaging

Passaging

The primary cells isolated from the umbilical cord or the constructed seed bank cells (cultured with NC0103+NC0103.S) $\,$

Serial Passage Data

are subcultured and can be stably passaged to 20 generations.

Total harvested P3 cells 6480×10⁷.

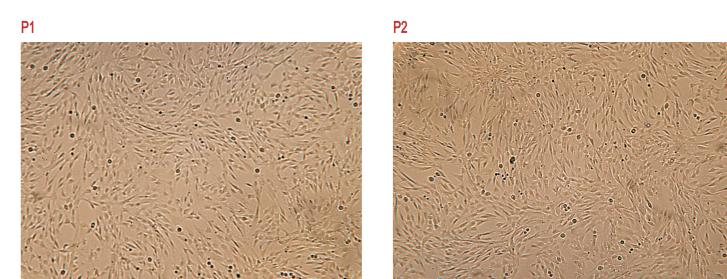
Total harvested P10 cells 58000×10¹³.

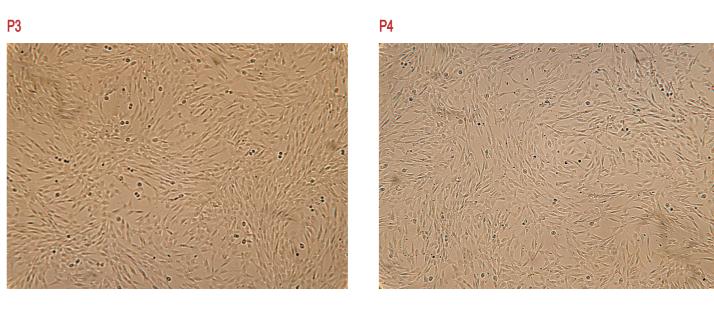
Total harvested P20 cells 423959×10²⁰.

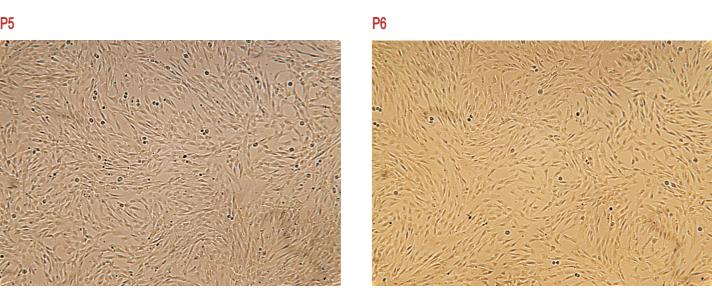


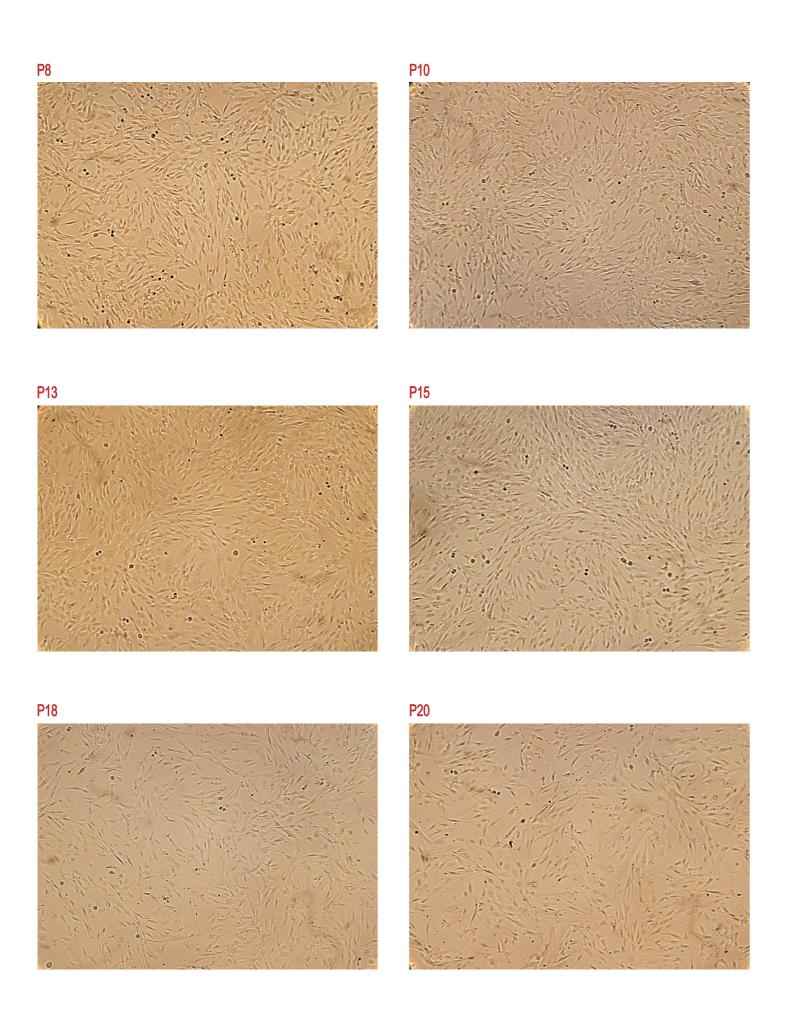
Passage	Seeding density (pcs/cm2)	Time	Confluence	Total harvested cells (pcs)/150 plates	Amplification factor	Total harvested cells (pcs)	Total amplification factor
Primary		12-14 days		3.00E06		2.4E+07	-
P1				1.85E07	15.45	37 E+07	15
P2]			1.58E07	13.13	486 E+07	203
Р3	8000			1.60E07	13.31	6480 E+07	2700
P4				1.38E07	11.48	74392 E+07	3.10E4
P5			1.27E07	10.56	785576 E+07	3.27E5	
P6			1.62E07	11.57	9089117 E+07	3.79E6	
P7			1.24E07	8.84	80347790 E+07	3.35E7	
P8]		80% ~ 90%	1.53E07	10.91	876594392 E+07	3.65E8
Р9	1			1.15E07	7.68	6732244929 E+07	2.81E9
P10				1.29E07	8.62	58031951290 E+07	2.42E10
P11		72h		1.28E07	8.56	496753503043 E+07	2.07E11
P12				1.05E07	7.03	3492177126395 E+07	1.46E12
P13	10000	10000		1.30E07	10.82	37785356507598 E+07	1.57E13
P14			8.50E06	7.08	267520324073795 E+07	1.11E14	
P15			6.52E06	5.43	1452635359720710 E+07	6.05E14	
P16			6.74E06	5.62	8163810721630380 E+07	3.40E15	
P17			6.18E06	5.15	42043625216396500 E+07	1.75E16	
P18				6.50E06	5.42	227876448672869000 E+07	9.49E16
P19			5.47E06	4.56	1039116605948280000 E+07	4.32E17	
P20			4.90E06	4.08	4239595752268990000 E+07	1.77E18	

Cell morphology



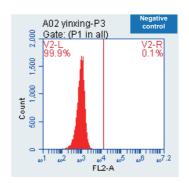


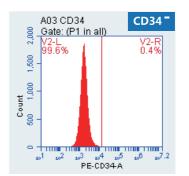


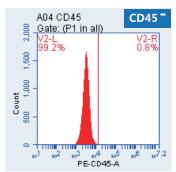


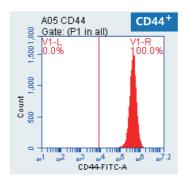
Immunophenotyping

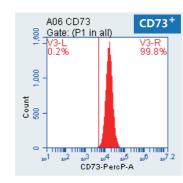


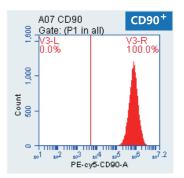


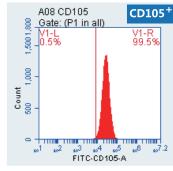




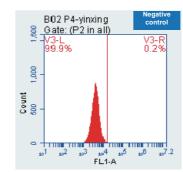


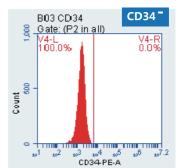


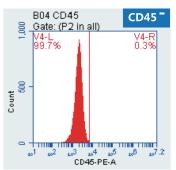


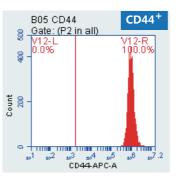


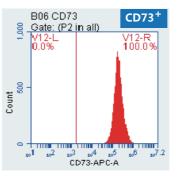


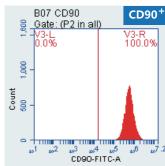


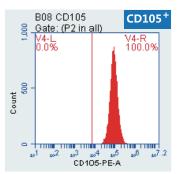




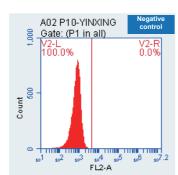


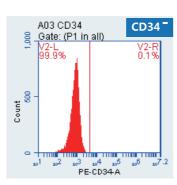


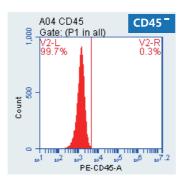


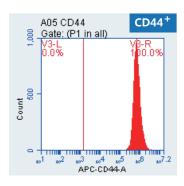


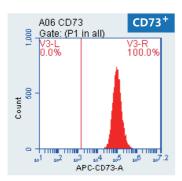
P4 Phenotyping

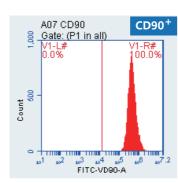


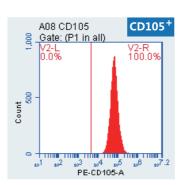




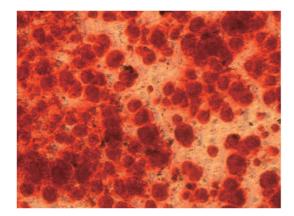




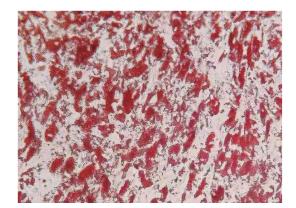




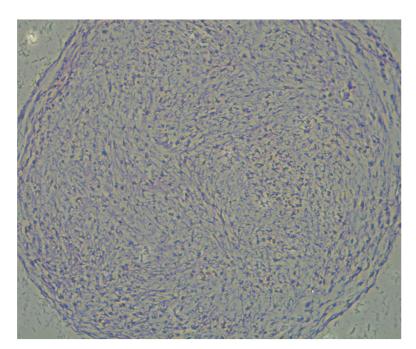
Induced differentiation



Result of induced osteogenic differentiation



Result of induced adipogenic differentiation



Result of induced chondrogenic differentiation

Biocompatibility and Toxicity Studies



Hardware Conditions

Yocon Biology has the first fully automatic liquid culture medium production line in China, including 6 major subsystems such as pure water system, distilled water system, cooling water system, online steam sterilization system, liquid dispensing system, and filling system. Yocon Biology is the Class II in vitro diagnostic reagent. manufacturer, and meets the GMP production requirements.



The first fully automatic liquid culture medium filling line in China



Fully automatic liquid dispensing system with the batch output of 1000 L



Distilled water system to ensure endotoxin below 0.015 EU/ml



CIP&SIP, to ensure the sterility of the whole manufacturing process