OriCell®

Product test report

OriCell® Adult Bone Marrow Mesenchymal Stem Cells

Product number: HUXMA-01001

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Basic Information

product name	OriCell® Adult Bone Marrow Mesenchymal Stem Cells
Part Number	HUXMA-01001
batch number	210406H61
Donor information	male
Cryopreservation passage	P2
Storage Conditions	Liquid nitrogen (-196°C)

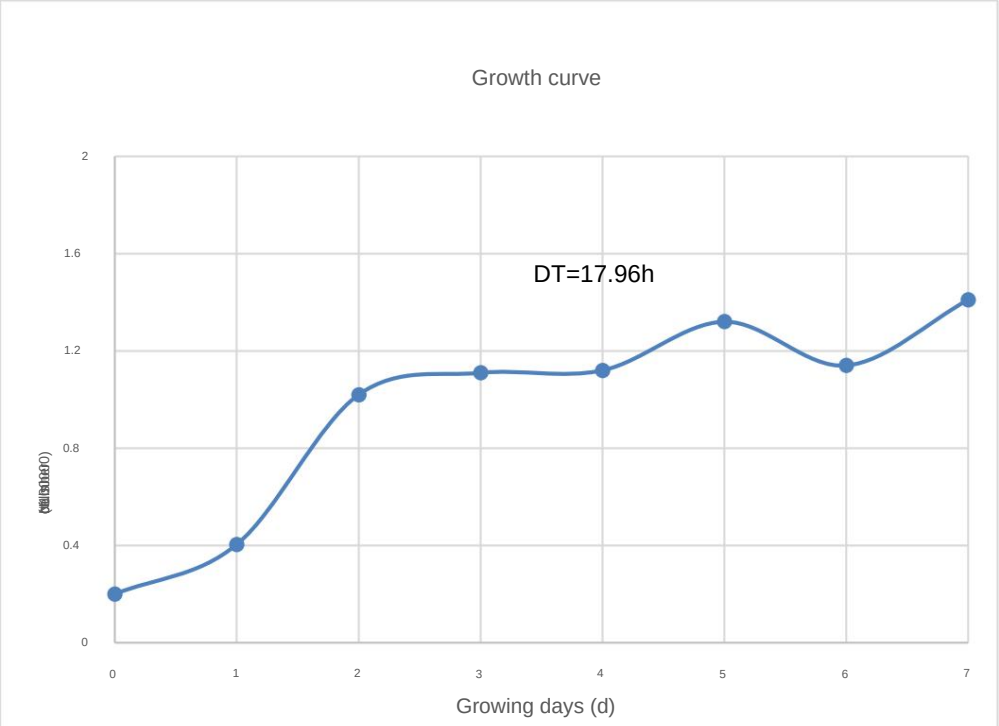
Testing standards and results

Test items			Test results	Testing standards	in conclusion
often	Bacteria, fungi		Negative	Negative	Passed
regulation	Mycoplasma		Negative	Negative	Passed
Inspection	Endotoxins		ÿ10EU	ÿ10EU	Passed
Recommendation	Resuscitation survival rate		98.95%	ÿ80%	Passed
Certainly	Number of living cells		1.88×106	ÿ1×106	Passed
Inspection	Cell recovery and adhesion rate		99.52%	ÿ80%	Passed
Measurement	Growth status		The morphology is long and spindle-like, with polar arrangement. The population doubling time was 17.96 h	The morphology is long fusiform and arranged in polar pattern; Population doubling time ÿ 72 h	Passed
surface noodle Standard remember point Child		CD105	90.04%	ÿ70%	Passed
		CD29	99.08%	ÿ70%	Passed
		CD73	99.11%	ÿ70%	Passed
		CD34	0.80%	ÿ5%	Passed
		CD45	0.91%	ÿ5%	Passed
		CD11b	0.80%	ÿ5%	Passed
		CD44	99.45%	ÿ70%	Passed

Cell growth status

Cell proliferation ability

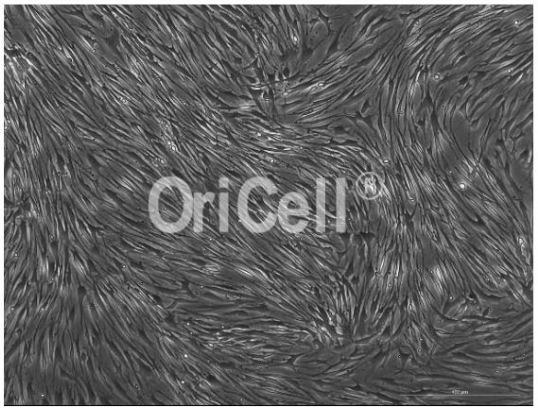
The data of the logarithmic phase (1-2 days) were selected for calculation, and the cell population doubling time was found to be 17.96h.

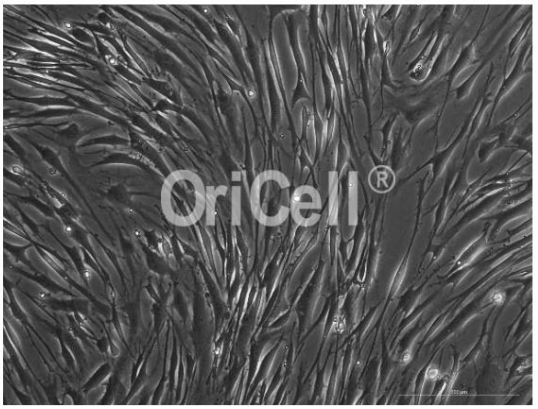


Cell passaging capacity

The cells all grew in a long spindle shape with good polarity and three-dimensional sense. After 5 passages, the cells were still quite active.

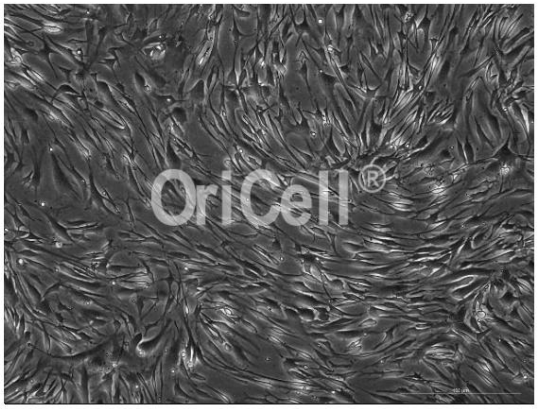
The morphology of this batch of cells after 72 hours of growth in the Pn+1 generation

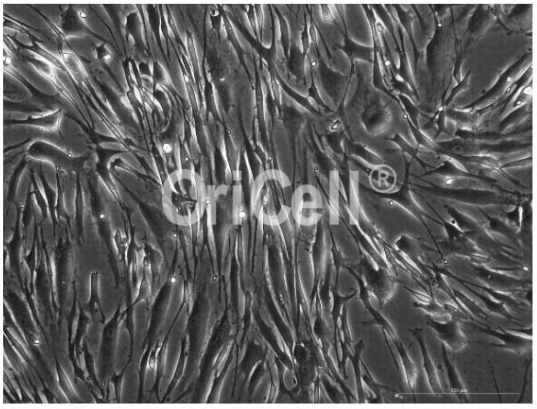




The morphology of this batch of cells after 48 hours of growth in the Pn+3 generation

The morphology of this batch of cells after 48 hours of growth at generation Pn+5



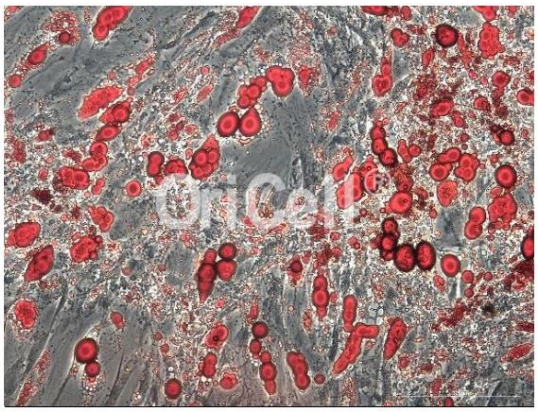


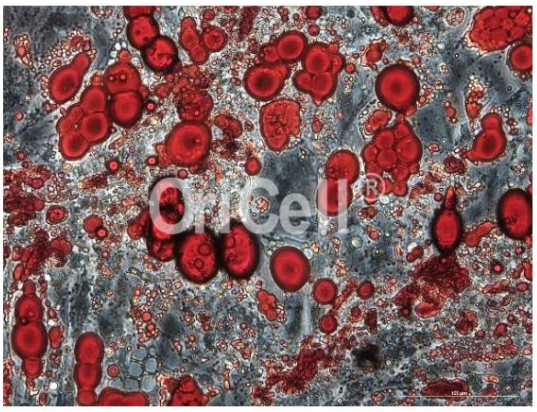
Induced differentiation ability

Adipogenic differentiation

When the cell confluence reached about 90%, mesenchymal stem cell adipogenesis induction medium was added. After 39 days, Oil Red O staining was performed, and red cells were visible.

More standard lipid droplets.

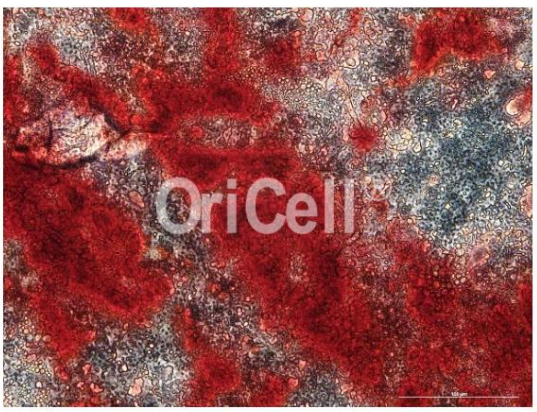




Osteogenic differentiation

When the cell confluence reached about 70%, the mesenchymal stem cell osteogenic induction solution was added, and Alizarin red staining was performed 35 days later.

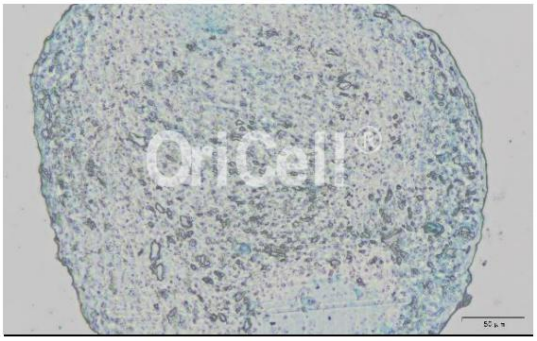
Combined to form concentric circles of small dark red nodules.



Chondrogenic differentiation

After cell mass culture and mesenchymal stem cell chondrogenic induction medium induction culture, the cells gradually changed from flat cell masses attached to the bottom of the centrifuge tube to cells.

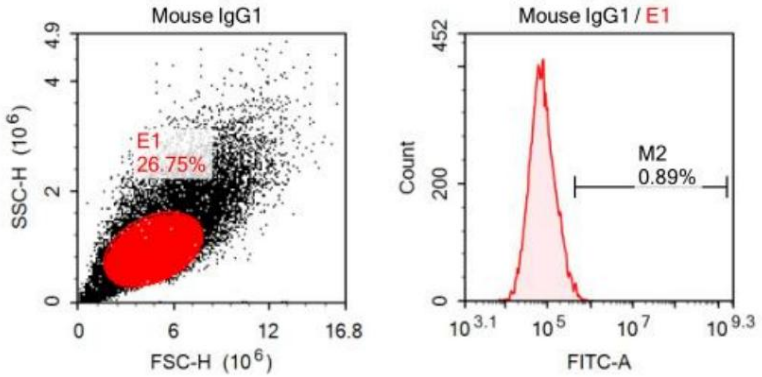
After 21 days of induction, the cell spheres became larger and rounder, and the surface became smooth.



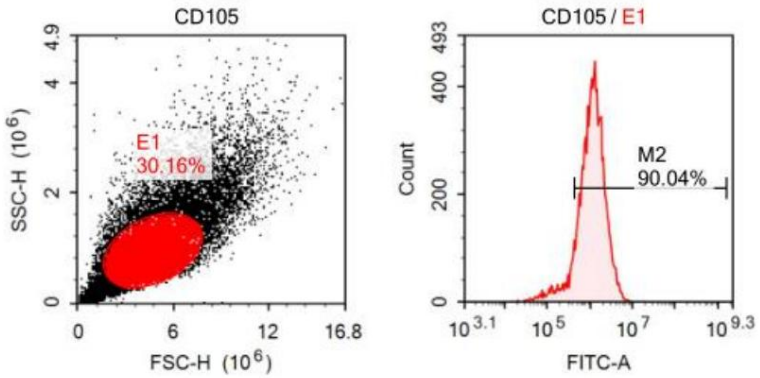
Surface molecular flow detection

Data Details

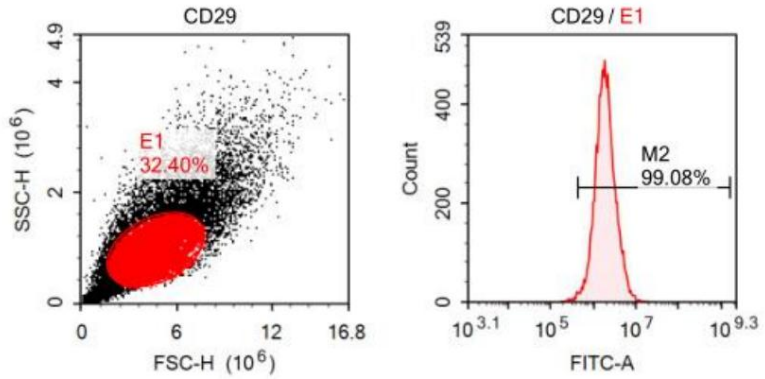
Mouse IgG1, ÿ Isotype Control Antibody



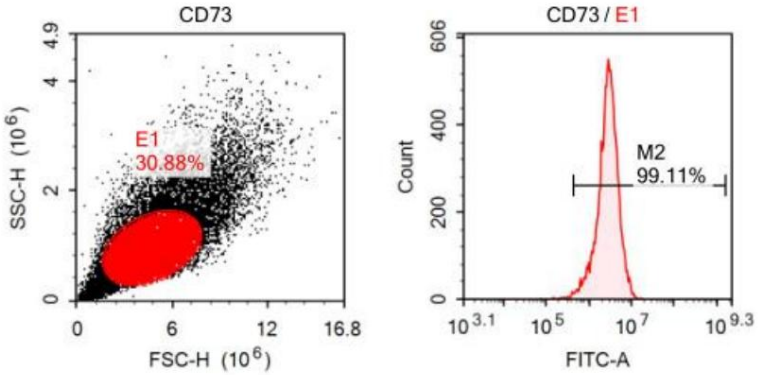
Anti-human CD105 antibody



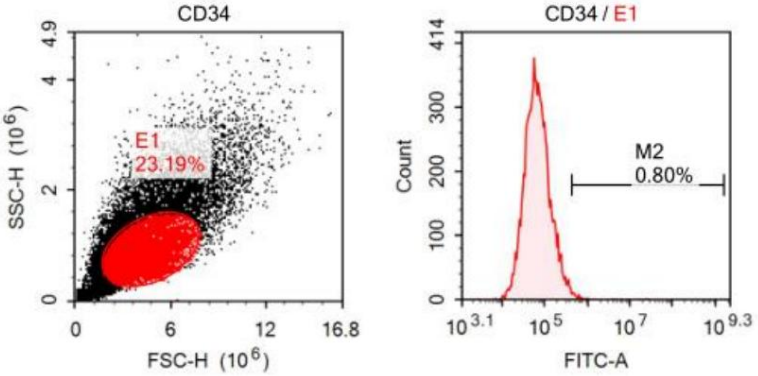
Anti-human CD29 antibody



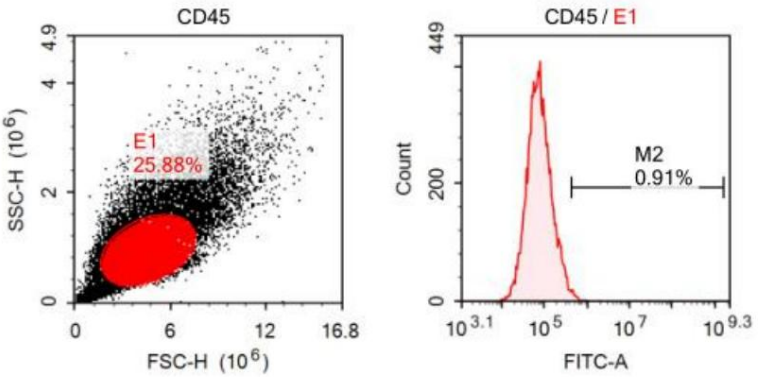
Anti-human CD73 antibody



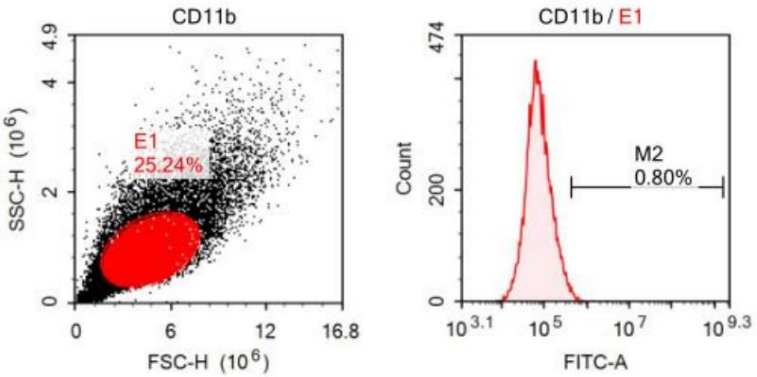
Anti-human CD34 antibody



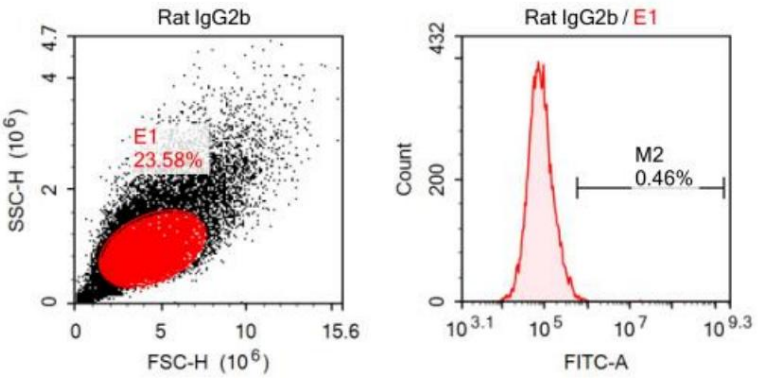
Anti-human CD45 antibody



Anti-human CD11b antibody



Rat IgG2b, ÿ Isotype Control Antibody



Anti-human CD44 antibody