

Materials List for

Isolation of Umbilical Cord-Derived Mesenchymal Stem Cells with High Yields and Low Damage

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Materials

Name	Company	Catalog Number	Comments
APC anti-human CD44 Antibody	Biologend	338806	
24-well cell culture plates	Thermo Scientific	142475	
APC anti-human CD73 (Ecto-5'-nucleotidase) Antibody	Biologend	344006	
APC Mouse IgG1, κ Isotype Ctrl (FC) Antibody	Biologend	400122	
Autoclave	HIRAYAMA	HVE-50	
Automatic Cell Counter	Countstar	FL-CD	
BAMBANKER Cryopreservation Solution	Wako	302-14681	
Cell Staining Buffer	Biologend	420201	
Centrifugal Machine	Eppendorf	5424R	
Clean Bench	Shanghai ZhiCheng	C1112B	
CO ₂ Incubator	Thermo Scientific	HERAcell 150i	
D-PBS	Solarbio	D1040	
Electro-thermostatic Blast Oven	Shanghai JingHong	DHG-9423A	
FITC anti-human CD105 Antibody	Biologend	323204	
FITC anti-human CD90 (Thy1) Antibody	Biologend	328108	
FITC Mouse IgG1, κ Isotype Ctrl (FC) Antibody	Biologend	400110	
Flow Cytometry	Beckman	CytoFLEX	
hemocytometer	Superior Marienfeld	640410	
Intracellular Staining Permeabilization Wash Buffer (10×)	Biologend	421002	
Inverted Biological Microscope	ZEISS	Axio Vert. A1	
Liquid Nitrogen Storage Tank	Thermo Scientific	CY50935-70	
Normal saline (NS)	Meilunbio	MA0083	

PBS	Solarbio	P1032	
PE anti-human CD11b Antibody	Biolegend	393112	
PE anti-human CD19 Antibody	Biolegend	392506	
PE anti-human CD34 Antibody	Biolegend	343606	
PE anti-human CD45 Antibody	Biolegend	368510	
PE anti-human HLA-DR Antibody	Biolegend	307606	
PE Mouse IgG1, κ Isotype Ctrl (FC) Antibody	Biolegend	400114	
PE Mouse IgG2a, κ Isotype Ctrl (FC) Antibody	Biolegend	400214	
Precision Electronic Balance	Satorius	PRACTUM313-1CN	
Snowflake Ice Machine	ZIEGRA	ZBE 30-10	
steriled 50 mL plastic tube	Greniner	227270	
Thermostatic Water Bath	Shanghai YiHeng	HWS12	
Trypsin 1:250	Solarbio	T8150	
UltraGRO-Advanced	Helios	HPCFDCGL50	
Ultrapure and Pure Water Purification System	Milli-Q	Milli-Q Reference	
Xeno-Free Human MSC Culture Medium	FUKOKU	T2011301	