

Materials List for

Single-Cell Sorting of Immunophenotyped Mesenchymal Stem Cells from Human Exfoliated Deciduous Teeth

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jove.com/video/65723

Materials

Name	Company	Catalog Number	Comments
Alcian Blue Stain	HiMedia	CCK029-1KT	
Antibiotic-Antimycotic (100x)	Gibco by ThermoFisher	15240062	
BD CompBead Plus Anti-Mouse Ig, κ/Negative Control (BSA) Compensation Plus (7.5 μm) Particles Set	BD Biosciences	560497	
BD FACS Accudrop Beads	BD Biosciences	345249	Used to set up the Laser delay when the sort module opens.
BD FACS Aria Fusion Flow cytometer	BD Biosciences	---	
BD FACS Diva 9.4	BD Biosciences	---	
BD FACS Sheath Fluid	BD Biosciences	342003	Used as sheath fluid for both analysis and sorting experiments in the BD FACSAria Fusion
BD FACSDiva CS&T Research Beads	BD Biosciences	655050	Used for Instrument configuration depending on the nozzle size.
BD Horizon V450 Mouse Anti-Human CD44	BD Biosciences	561292	
BD Horizon V450 Mouse IgG2b, κ Isotype Control	BD Biosciences	560374	CD44-V450 isotype
BD Pharmingen APC Mouse Anti-Human CD105	BD Biosciences	562408	
BD Pharmingen APC Mouse IgG1, κ Isotype Control	BD Biosciences	555751	CD105-APC isotype
BD Pharmingen DAPI Solution	BD Biosciences	564907	DAPI Stock solution of 1 mg/mL
BD Pharmingen FITC Mouse Anti-Human CD90	BD Biosciences	555595	
BD Pharmingen FITC Mouse IgG1, κ Isotype Control	BD Biosciences	555748	CD90-FITC isotype
BD Pharmingen PE Mouse Anti-Human CD45	BD Biosciences	555483	

BD Pharmingen PE Mouse IgG1, κ Isotype Control	BD Biosciences	555749	CD45-PE isotype
BD Pharmingen PerCP-Cy 5.5 Mouse Anti-Human CD73	BD Biosciences	561260	
BD Pharmingen PerCP-Cy 5.5 Mouse IgG1, κ Isotype Control	BD Biosciences	550795	CD73-PerCP-Cy 5.5 isotype
BD Pharmingen Purified Mouse Anti-Vimentin	BD Biosciences	550513	
Bovine serum albumin	Hi-Media	TC548-5G	
Crystal violet	Nice chemical pvt ltd	C33809	
Dulbecco's Phosphate Buffered Saline	Sigma-aldrich	D5652-50L	dPBS used for culture work and maintenance.
Ethanol	---	---	Used for general sterilization.
Fetal Bovine Serum	Gibco by ThermoFisher	10270-106	
Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 555	ThermoFisher Scientific	A-21422	
KO-DMEM	Gibco by ThermoFisher	10829018	Basal medium for undifferentiated hESCs, used in the preparation of culture media
L-Glutamine 200mM (100x)	Gibco by ThermoFisher	25030-081	
Methanol, for Molecular Biology	Hi-Media	MB113	
Oil red O	HiMedia	CCK013-1KT	
Paraformaldehyde	loba chemie	30525-89-4	
Penicillin Streptomycin (100x)	Gibco by ThermoFisher	15140-122	
Phalloidin (ActinGreen 488 ReadyProbes reagent)	Invitrogen	R37110	
Silver Nitrate	HiMedia	MB156-25G	
Sodium Thiosulphate pentahydrate	Chemport	10102-17-7	
Sphero Rainbow Fluorescent Particles, 3.0 - 3.4 μ m	BD Biosciences	556291	
Staining buffer	Prepared in MIRM	----	It was prepared using 2% FBS in PBS
StemPro Adipogenesis Differentiation Basal Media	Gibco by ThermoFisher	A10410-01	Basal media for Adipogenic media
StemPro Adipogenesis Supplement	Gibco by ThermoFisher	A10065-01	Induction media for Adipogenic media
StemPro Chondrogenesis Supplement	Gibco by ThermoFisher	A10064-01	Induction media for Chondrogenic media
StemPro Osteogenesis Supplement	Gibco by ThermoFisher	A10066-01	Induction media for Osteogenic media
StemPro Osteogenesis/Chondrogenesis Differentiation Basal Media	Gibco by ThermoFisher	A10069-01	Basal media for both Osteogenic and Chondrogenic media
Triton-X-100	Hi-Media	MB031	
Trypan Blue	Gibco by life technologies	15250-061	
Trypsin - EDTA Solution 1x	Hi-media	TCL049	
Tween-20	MERCK	9005-64-5	