

Materials List for:

Isolation and Characterization of Mesenchymal Stromal Cells from Human Umbilical Cord and Fetal Placenta

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Materials

Name	Company	Catalog Number	Comments
DMEM with 4,500 mg/mL glucose	Invitrogen	11995065	
FBS	Aleken Biologicals	FBSS500	
Isobutyl-methylxanthine	Sigma	I5879-250mg	
Dexamethasone	Sigma	D4902-100mg	
Insulin	Prospec	CYT-270	
Indomethacin	Sigma	I7378-5G	
TGFβ1	Prospec	CYT-716	
Ascorbic acid	Sigma	A-7631	
Ascorbate 2-phosphate	Sigma	A-8960	
β-glycerophosphate	Sigma	G-6251	
TrypLE	Invitrogen	50591419	
GeneJET RNA purification kit	Thermo Scientific	K0732	
DNase	Promega	M6101	
iScript kit	Biorad	1708891	
Sso-Advanced Universal SYBR Green Supermix Kit	Biorad	1725274	
4% paraformaldehyde	Affymetrix	19943	
OCT	Thermo Scientific	SH75-125D	
Oil Red O	American MasterTech Scientific	STORO100	
Toluidine blue	Thermo Scientific	S71363	
Crystal violet	Sigma	C3886	
Alizarin red stain	Thermo Scientific	S25131	
APC Mouse anti-Human CD29	BD Biosciences	559883	
APC Mouse anti-Human CD34	BD Biosciences	555824	
FITC Mouse anti-Human CD44	BD Biosciences	555478	
FITC Mouse anti-Human CD45	BD Biosciences	555482	
APC Mouse anti-Human CD73	BD Biosciences	560847	
FITC Mouse anti-Human CD90	BD Biosciences	561969	
APC Mouse anti-Human CD105	BD Biosciences	562408	
Centrifuge	IEC	93522M-2	
CO ₂ incubator	Thermo Scientific	Hera Cell 150i	
Light microscope (LM)	Nikon Instruments Inc.	Olympus	

Hemacytometer	Thermo Scientific	0267151B	
Cryostat	Leica	CM3050 S	
FACS Canto II and Diva Software	BD Biosciences	Canto II	
Thermocycler	MJ Research Inc.	PTC-100	
Real-Time PCR System	Bio-Rad	CFX96	