

Technique for Obtaining Mesenchymal Stem Cell from Adipose Tissue and Stromal Vascular Fraction Characterization in Long-Term Cryopreservation

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Materials

Name	Company	Catalog Number	Comments
1.8 mL cryovials	Nunc Thermo Fisher Scientific	340711	
150 mL polyvinyl chloride transfer bag	JP FARMA	80146150059	
2% Alizarin Red S Solution, pH 4.2	Sigma Aldrich	A5533	
Adrenaline (1 mg/mL)	Hipolabor	NA	
Alcian Blue solution	Sigma Aldrich	1,01,647	
Antibiotic-Antimycotic 100x	Gibco	15240062	
BD FACSCalibur Flow Cytometer using BD CellQuest Pro Analysis	BD BioSciences	NA	
Calcium chloride 10%	Merck	102379	
Chlorhexidine gluconate 4%	VIC PHARMA	NA	
Collagenase, Type I, powder	Gibco	17018029	
DMEM (Dulbecco's modified Eagle's medium)	Gibco	11966025	
DPBS no calcium, no magnesium (Dulbecco's Phosphate Buffered Saline Gibco Cell Therapy Systems)	Gibco	A1285801	
DPBS with calcium (Dulbecco's Phosphate Buffered Saline Gibco Cell Therapy Systems)	Gibco	A1285601	
Fetal bovine serum	Gibco	10500056	
Formaldehyde 4%	Sigma Aldrich	1,00,496	
Inverted light microscope	Nikon Eclipse TS100	NA	
Live and Dead Cell Assay	Thermofisher	01-3333-41 01-3333-42	
Monoclonal antibody: CD105	BD BioSciences	745927	
Monoclonal antibody: CD11B	BD BioSciences	746004	

Monoclonal antibody: CD19	BD BioSciences	745907	
Monoclonal antibody: CD34	BD BioSciences	747822	
Monoclonal antibody: CD45	DAKO	M0701	
Monoclonal antibody: CD73	BD BioSciences	746000	
Monoclonal antibody: CD90	BD BioSciences	553011	
Monoclonal antibody: HLA-DR	BD BioSciences	340827	
Mr. Frosty Freezing Container	Thermo Fisher Scientific	5100-0001	
PBS (phosphate buffered saline) 1x pH 7.4	Gibco	10010023	
StemPro Adipogenesis Differentiation Kit	Gibco	A1007001	
StemPro Chondrogenesis Differentiation Kit	Gibco	A1007101	
StemPro Osteogenesis Differentiation Kit	Gibco	A1007201	
Sterile connector with one spike with needle injection site	Origen Biomedical Connector, USA	NA	Code mark: IBS
Trypan blue solution 0.4%	Sigma Aldrich	93595	
Trypsin-EDTA 0.25% 1x, phenol red	Gibco	25200056	