

Isolation, Proliferation and Differentiation of Rhesus Macaque Adipose-Derived Stem Cells

 Jonquil M. Poret^{1,2}, Patricia E. Molina^{1,2}, Liz Simon^{1,2}
¹Department of Physiology, Louisiana State University Health Sciences Center - New Orleans ²Comprehensive Alcohol-HIV/AIDS Research Center, Louisiana State University Health Sciences Center - New Orleans

Corresponding Author

 Liz Simon
 lsimo2@lsuhsc.edu

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Materials

Name	Company	Catalog Number	Comments
0.4 % trypan blue	Thermo-Fisher	15250061	
1.5-ml microcentrifuge tube	Dot Scientific	707-FTG	
100 % isopropanol	Sigma-Aldrich	PX1838-P	
100-mm cell culture dish	Corning	430167	
3-Isobutyl-1-methylxanthine	Sigma-Aldrich	I7018	
50-mL plastic conical tube	Fisher Scientific	50-465-232	
70-µm cell strainer	Corning	CLS431751	
a-MEM	Thermo-Fisher	12561056	
Aluminum foil	Reynolds Wrap		
BODIPY	Thermo-Fisher	D3922	
Bovine serum albumin (BSA)	Sigma-Aldrich	05470	
Centrifuge	Eppendorf	5810 R	
Collagenase, Type I	Thermo-Fisher	17100017	
Dexamethasone-Water Soluble	Sigma-Aldrich	D2915	
Dimethyl sulfoxide, DMSO	Sigma-Aldrich	D2650	
Distilled water	Thermo-Fisher	15230162	
Fetal Bovine Serum, USDA-approved	Sigma-Aldrich	F0926	
Fungizone/Amphotericin B (250 ug/ mL)	Thermo-Fisher	15290018	
Hanks' Balanced Salt Solution (HBSS)	Thermo-Fisher	14175095	
Hemocytometer with cover slip	Sigma-Aldrich	Z359629	
Indomethacin	Sigma-Aldrich	I7378	
Inverted light microscope	Nikon	DIAPHOT-TMD	
L-glutamine (200 mM)	Thermo-Fisher	25030081	
Laboratory rocker, 0.5 to 1.0 Hz	Reliable Scientific	Model 55 Rocking	
Neutral buffered formalin (10 %)	Pharmco	8BUFF-FORM	

Oil Red O	Sigma-Aldrich	O0625	
Paraformaldehyde	Sigma-Aldrich	P6148	
Penicillin-Streptomycin (10,000 U/ mL)	Thermo-Fisher	15140122	
Phosphate buffered saline (PBS), pH 7.4	Thermo-Fisher	10010023	
Red blood cell (RBC) lysis buffer	Qiagen	158904	
Serological pipettes, 2 to 25 mL	Costar Stripettes		
Standard humidified cell culture incubator, 37 °C, 5 % CO ₂	Sanyo	MCO-17AIC	
Trypsin-EDTA (0.25%)	Thermo-Fisher	25200056	