

Materials List for:

In Vivo Tracking of Human Adipose-derived Mesenchymal Stem Cells in a Rat Knee Osteoarthritis Model with Fluorescent Lipophilic Membrane Dye

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Materials

Name	Company	Catalog Number	Comments
Matrx VMR animal anesthesia system	Midmark	VIP3000	
4-0 suture	Shanghai Jinhuan	KC439	
Razor	Pritech	LD-9987	
Gentamicin	Zhejiang Jindakang Animal Health Product Co., Ltd.	None	
0.9% Sodium chloride solution	Hunan Kelun Pharmaceutical Co., Ltd.	H43020455	
Penicillin	Shanghai Kangfu chemical pharmaceutical Co., Ltd.	None	
Buprenorphine	Tianjin Pharmaceutical Research Institute Pharmaceutical Co., Ltd.	None	
Paraformaldehyde	Sigma-Aldrich	16005	Dilute to final concentration of 10% in PBS
EDTA	Sigma-Aldrich	E9884	Dilute to final concentration of 20% in PBS
0.1% Hematoxylin Solution, Mayer's	Sigma-Aldrich	MHS16	
0.5% Eosin Y solution, alcoholic	Sigma-Aldrich	HT110116	
Safranin O	Sigma-Aldrich	S8884	
Fast Green	Sigma-Aldrich	F7258	
Shandon Excelsior ESTM Tissue Processor	Thermo Fisher	A78400006	
Shandon Histocentre™ 3 Tissue Embedding Center	Thermo Fisher	B64100010	
Fully Automated Rotary Microtome	Leica	RM2255	
DiD	Molecular Probes, Life Technologies	V-22887	
D-MEM High Glucose	Sigma-Aldrich	D5648	
PBS	GIBCO, Life Technologies	14190-144	
0.25% Trypsin-EDTA	Invitrogen	25200-114	
10 cm Petri Dish	Corning	V118877	
Centrifuge	Beckman	Optima MAX-TL	
Fluorescent microscope	Olympus	BX53	

0.4% Trypan Blue solution	Sigma-Aldrich	93595	
Titetamme	Virbac (Zoletil 50)	1000000188	
Zolazepam	Virbac (Zoletil 50)	1000000188	
Sterile hyposeptic syringe for single use 26G	Shanghai Misawa Medical Industry	None	
IVIS Spectrum In Vivo Imaging System	PerkinElmer	124262	
Living Imaging 4.0 software	PerkinElmer	None	