

Materials List for:

A Rat Model of Radiation Vasculitis for Mesenchymal Stem Cell-based Therapy

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Materials

Name	Company	Catalog Number	Comments
10% Chloral hydrate solution	Leagene Biotechnology, China		
10% Fetal bovine serum	Thermo Fisher Scientific, USA	12664025	
2 µL pipette with tips	Eppendorf, Germany		
2×SYBR Premix Ex Taq II	Takara, China	RR820L	
3-0 Polyglactin suture	Ethicon, USA		
4',6-diamidino-2-phenylindole	Thermo Fisher Scientific, USA	D1306	
5× PrimeScript RT Master Mix	Takara, China	RR036	
9-0 Nylon suture	Jinhuan Medical Products, China		
Automated Vacuum Tissue Processor	Leica Biosystems, Germany	ASP6025	
Biological irradiator	Radsources, USA	RS2000 pro	
Biotinylated anti-rabbit secondary antibody	Agilent Technologies, China	E0353	
Buffer I	Beyotime, China	D0063-3	
Buffer II	Beyotime, China	D0063-4	
Colibri retractor	RWD Life Science, China	R22029-03	
Digital slide scanner	Pannoramic Desk	3DHISTECH, Hungary	
DNA purification column	Beyotime, China	D0063-7	
Dulbecco's modified Eagle's medium	Thermo Fisher Scientific, USA	11885092	
Elution buffer	Beyotime, China	D0063-5	
Female F344 rats	Vital River Laboratory Animal Technology, China		12 weeks of age
Forceps	RWD Life Science, China	F22003-09	
Genomic DNA mini preparation kit	Beyotime, China	D0063	
Genomic DNA mini preparation kit with spin column	Beyotime, China	D0063	
Heparin	Qianhong Bio-pharm, China		
Horseradish peroxidase-conjugated streptavidin	Agilent Technologies, China	P0397	
Interleukin 1β primer	Sangon Biotech, China		
Interleukin 2 primer	Sangon Biotech, China		
Lentivirus encoding green fluorescent protein gene	Genechem, China		

Lysis buffer A	Beyotime, China	D0063-1	
Lysis buffer B	Beyotime, China	D0063-2	
Male F344 bone marrow mesenchymal stem cells	Cyagen Biosciences, China	RAFMX-01001	
Microclamps	Jinzhong Medical Instrument, China	W40130	
Microneedle holder	Jinzhong Medical Instrument, China	WBD020	
Microscissors	Jinzhong Medical Instrument, China	WAA010	
Microtweezers	Jinzhong Medical Instrument, China	WA3010	
Needle holder	RWD Life Science, China	F31026-13	
Normal saline	Baxter, China		
PCR system for step 7	Thermo Fisher, USA	Applied Biosystem 7500	
PCR system for step 8	Roche, USA	LightCycler 480	
Polyclonal MPO antibody	Agilent Technologies, China	A0398	
Primer for sex determination region on the Y chromosome	Sangon Biotech, China		
Proteinase K solution	Beyotime, China	D0063-6	
Scissors	RWD Life Science, China	S13052-12	
Slide image analysis software	Panoramic viewer	3DHISTECH, Hungary	
Stereo microscope	Jiangnan Novel Optics, China	JSZ6	
Tissue adhesive	B. Braun, Germany	Histoacryl blue	
Transforming growth factor β primer	Sangon Biotech, China		
Trizol solution	Beyotime, China	R0016	
Tumor necrosis factor α primer	Sangon Biotech, China		
β -actin	Sangon Biotech, China		