

Materials List for:

Pre-Conditioning the Airways of Mice with Bleomycin Increases the Efficiency of Orthotopic Lung Cancer Cell Engraftment

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URL: <https://www.jove.com/video/56650>

DOI: [doi:10.3791/56650](https://doi.org/10.3791/56650)

Materials

Name	Company	Catalog Number	Comments
Bleomycin	Sigma	B5507-15UN	CAUTION Health hazard GHS08
Exel Catheter 24G	Fisher	1484121	Remove needle. For intratracheal injection
Ketamine (Ketaset inl 100 mg/mL C3N 10 mL)	Butler Schein	56344	To anesthetize mice
Xylazine	Butler Schein	33198	To anesthetize mice
Ketoprofen, 5,000 mg	Cayman Chemical	10006661	Analgesic
Puralube Veterinary Ophthalmic Ointment	BUTLER ANIMAL HEALTH COMPANY LLC	8897	To prevent eye dryness while under anesthesia
D-Luciferin powder	Perkin Elmer Health Sciences Inc	122799	For luminescent imaging. Reconstitute powder with PBS for a working concentration of 15mg/mL. Protect from Light
Rodent Intubation stand	Braintree Scientific	RIS-100	Recommended stand for intratracheal injection
MI-150 ILLUMINATOR 150W MI-150	DOLAN-JENNER INDUSTRIES	MI-150 / EEG2823M	To illuminate and visualize trachea
Graefe Forceps, 2.75 (7 cm) long serrat	Roboz	RS-5111	For intratracheal injection
Syringe Luer-Lok Sterile 5ml	BD / Fisher	309646	
Satiny Smooth by Conair Dual Foil Wet/Dry Rechargeable Shaver	Conair	-	To shave mice
Bonn Scissors, 3.5" straight 15 mm sharp/sharp sure cut blades	Roboz	RS-5840SC	
15 mL conical tube	BD / Fisher	352097	
1.5 mL centrifuge tubes	USA SCIENTIFIC INC	1615-5500	
Vial Scintillation 7 mL Borosilicate Glass GPI	Fisher	701350	
Filter pipette tips (200 µL)	USA SCIENTIFIC INC	1120-8710	
Phosphate Buffered Saline	Life Technologies	14190-144	
0.25% Trypsin-EDTA	Life Technologies	25200-056	
DMEM high glucose	Life Technologies	11965-092	
RPMI Medium 1640	Life Technologies	11875-093	
Fetal bovine serum USDA	Life Technologies	10437-028	
Penicillin-Streptomycin	Life Technologies	15140-122	
Amphotericin B	Sigma	A2942-20ML	

Trypan Blue Stain 0.4%	Life Technologies	15250-061	
Countess Automated Cell Counter	Life Technologies	AMQAX1000	
Flask T/C 75cm sq canted neck, blue cap	Fisher / Corning	353135	
IVIS Spectrum Xenogen Bioluminescence	Perkin Elmer Health Sciences Inc	124262	For <i>in vivo</i> bioluminescence imaging
Living image software	Perkin Elmer Health Sciences Inc	128113	For <i>in vivo</i> bioluminescence analysis
XGI-8 Gas Anesthesia System	Perkin Elmer Health Sciences Inc	118918	For Isoflurane anesthesia
BD Ultra-Fine II Short Needle Insulin Syringe 1 cc. 31 G x 8 mm (5/16 in)	BD / Fisher	BD328418	For retro-orbital luciferin injection
Syringe 1ml	BD / Fisher	14-823-434	For intraperitoneal injections
26 G x 1/2 in. needle	BD / Fisher	305111	For intraperitoneal injections
4% Paraformaldehyde	VWR	43368-9M	CAUTION Health hazard GHS07, GHS08. For fixing tissue
Pipet-Lite Pipette, Univ. SL-200XLS +	METTLER-TOLEDO INTERNATIONAL	17014411	
Mayer's Hematoxylin	ELECTRON MICROSCOPY SCIENCES	517-28-2	
Eosin Y stain 0.25% (w/v) in 57%	Fisher	67-63-0	
Masson Trichrome Stain Kit	IMEB Inc	K7228	For masson trichrome stain to visualize collagen
Superfrost plus glass slides	Fisher	1255015	
6 well plate	Corning	C3516	
Universal Mycoplasma Detection Kit	ATCC	30-1012K	
OCT Embedding compound	ELECTRON MICROSCOPY SCIENCES	62550-12	For embedding tissue for frozen sections
Leica CM3050 S Research Cryostat	Leica	CM3050 S	To section tissue for staining analysis
Keyence All-in One Fluorescence Microscope	Keyence	BZ-X700	
ImageJ	US National Institutes of Health	IJ1.46	http://rsbweb.nih.gov/ij/download.html
Prism 7.0 for Mac OS X	GraphPad Software, Inc.	-	
Athymic (CrI:NU(NCr)-Foxn1nu) mice	Charles River	NIH-553	
NSG (NOD.Cg-Prkdcscid Il2rgtm1Wjl/SzJ) mice	Jackson Laboratories	5557	
B6129SF1/J mice	Jackson Laboratories	101043	
NIH-H2030 cells	ATCC	CRL-5914	
368T1	generously provided by Monte Winslow (Stanford University)	-	
PC9 cells	Nguyen DX et al. Cell. 2009;138:51-62	-	
H2030 BrM3 cells	Nguyen DX et al. Cell. 2009;138:51-62	-	