

Materials List for:

Practical Considerations in Studying Metastatic Lung Colonization in Osteosarcoma Using the Pulmonary Metastasis Assay

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URL: <https://www.jove.com/video/56332>

DOI: [doi:10.3791/56332](https://doi.org/10.3791/56332)

Materials

Name	Company	Catalog Number	Comments
Table 2			
Cell culture reagents for A-media, B-media, and complete media			
MNNG-HOS	ATCC	CRL-1547	highly metastatic OS cell line
HOS	ATCC	CRL-1543	poorly metastatic OS cell line
MG63.3	Amy LeBlanc Laboratory (NCI)	N/A	highly metastatic OS cell line
MG63	ATCC	CRL-1427	poorly metastatic OS cell line
10X M199 media	Thermofisher	11825015	Base media for A-media and B-media
Distilled Water (sterilized)	Thermofisher	15230-147	Component of A-media & B-media
7.5% sodium bicarbonate solution	Thermofisher	25080094	Component of A-media & B-media
Hydrocortizone	Sigma-Alrich	H6909	Component of A-media & B-media
Retinol acetate-water soluble	Sigma-Alrich	R0635-5MG	Component of A-media & B-media
Penicillin/Streptomycin 10X concentrated (10000 U/ml) solution	Thermofisher	15140122	Component of A-media & B-media, complete media.
Bovine insulin solution (10mg/ml)	Sigma-Alrich	I0516-5ML	Component of A-media & B-media
DMEM, high glucose	Thermofisher	11965092	Base media of Complete Media
L-Glutamine (200 mM)	Thermofisher	25030081	Component of Complete Media
Fetal Bovine Serum	Thermofisher	16000044	Component of Complete Media
Dulbecco's Phosphate Buffered Saline	Thermofisher	14190144	Used in cell culture.
Hank's Buffered Salts Solution, no calcium, no magnesium, no phenol red	Thermofisher	14175095	Used to resuspend cell pellet prior to injection
Trypsin-EDTA (0.25%), phenol red	Thermofisher	25200114	Used in cell culture.
DAR4M	Enzo	ALX-620-069-M001	Used to label lung parenchyma.
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Table 3			
Materials for PuMA			
Zeiss 710 Confocal LSM	Zeiss	N/A	Upright LSM confocal microscope
Zeiss 780 Confocal LSM	Zeiss	N/A	Inverted LSM confocal microscope
SCID mice	Charles River	N/A	NOD.CB17-Prkdcscid/NcrCr1, female, age 6-8 weeks

GelFoam	Harvard Apparatus	59-9863	Used as a support for lung tissue sections.
SeaPlaque Agarose	Lonza	50100	Used during insufflation of the lung.
1 ml syringe with 27 gauge needle	Fisherscientific	14-826-87	Used for tail vein injection.
10 ml syringe	BD	309604	Used for insufflation of the lung.
20 gauge catheter	Terumo	SR-OX2032CA	Used during insufflation of the lung.
Abbott IV extension set (30", Sterile)	Medisca	8342	Used during insufflation of the lung.
Alcohol swabs	BD	326895	For wiping tail vein before injection
Sterile surgical gloves	Fisherscientific	Varies with size	Asceptic handing of mouse lungs
30 cm ruler	Staples		Used for insufflation of the lung.
Support stand for ruler	Pipette.com	HS29022A	Used for insufflation of the lung.
35 mm glass-bottomed culture dish	Ibidi	81158	Used during imaging of lung slices
Absorbent Underpads with Waterproof Moisture Barrier	VWR	56617-014	Used to line the sterile work area in the biological hood.
Catgut Plain Absorbable Suture	Braun	N/A	Used to tie off cannulated trachea.
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Table 4			
Surgical instruments for PuMA			
Micro Dissecting Scissors 3.5" Straight Sharp/Sharp	Roboz	RS-5910	For cutting lung sections
4" (10 cm) Long Serrated Straight Extra Delicate 0.5mm Tip	Roboz	RS-5132	For manipulating/holding lung sections.
4" (10 cm) Long Serrated Slight Curve 0.8mm Tip	Roboz	RS5135	For manipulating/holding lung sections.
Thumb Dressing Forceps; Serrated; Delicate; 4.5" Length; 1.3 mm Tip Width	Roboz	RS-8120	For general dissection.
Thumb Dressing Forceps 4.5" Serrated 2.2 mm Tip Width	Roboz	RS-8100	For general dissection.
Extra Fine Micro Dissecting Scissors 3.5" Straight Sharp/Sharp, 20mm blade	Roboz	RS-5880	For general dissection.
Knapp Scissors; Straight; Sharp-Blunt; 27mm Blade Length; 4" Overall Length	Roboz	RS-5960	For general dissection.