

Intratibial Osteosarcoma Cell Injection to Generate Orthotopic Osteosarcoma and Lung Metastasis Mouse Models

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Materials

Name	Company	Catalog Number	Comments
Automatic cell counter	Shanghai Simo Biological Technology Co., Ltd	IC1000	Counting cells
Anesthesia machine	Shenzhen RWD Life Technology Co., Ltd	R500IP	The Equipment of Anesthesia mice
BALB/c athymic mice	Shanghai SLAC Laboratory Animal Co., Ltd.	/	animal
Basement Membrane Matrix	Shanghai Uning Bioscience Technology Co., Ltd	356234, BD, Matrigel	re-suspende cells
Bioluminescence imaging system	Shanghai Baitai Technology Co., Ltd	Vieworks	tracking the tumor growth and pulmonary metastasis, if the injection cell is labeled by luciferase
Centrifuge tube (15 mL)	Shanghai YueNian Biotechnology Co., Ltd	430790, Corning	Centrifuge the cells
isoflurane	Shenzhen RWD Life Technology Co., Ltd	VETEASY	Anesthesia mice
MEM media	Shanghai YueNian Biotechnology Co., Ltd	LM-E1141	Cell culture medium
Micro-volume syringe	Shanghai high pigeon industry and trade Co., Ltd	0-50 μ L	Inject precise cells into the tibia
Phosphate-buffered saline	Beyotime Biotechnology	ST447	wash the human osteosarcoma cells
1ml syringes	Shandong Weigao Group Medical Polymer Co., Ltd	20200411	drilling
143B cell line	ATCC	CRL-8303	osteosarcoma cell line
Trypsin (0.25%)	Shanghai YueNian Biotechnology Co., Ltd	25200056, Gibco	trypsin treatment of cells
Trypan blue	Beyotime Biotechnology	ST798	Staining cells to assess activity
vector (pLV-luciferase)	Shanghai YueNian Biotechnology Co., Ltd	VL3613	Plasmid

Lipofectamine 2000	Shanghai YueNian Biotechnology Co., Ltd	11668027, Thermo fisher	Plasmid transfection reagent
X-ray imaging system	Brook (Beijing) Technology Co., Ltd	FX PRO	X-ray images were obtained to detect tumor growth