

Materials List for

Intra-Cardiac Injection of Human Prostate Cancer Cells to Create a Bone Metastasis Xenograft Mouse Model

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Materials

Name	Company	Catalog Number	Comments
1 mL syringes and needles	Shandong Weigao Group Medical Polymer Co., Ltd	20200411	The cells were injected into the ventricles of mice
Anesthesia machine	Shenzhen RWD Life Technology Co., Ltd	R500IP	Equipment for anesthetizing mice
Automatic cell counter	Shanghai Simo Biological Technology Co., Ltd	IC1000	For counting cells
BALB/c athymic mice	Shanghai SLAC Laboratory Animal Co., Ltd.	Male	6-8 week old, male mice
Bioluminescence imaging system	Shanghai Baitai Technology Co., Ltd	Vieworks	For tracking the tumor growth and pulmonary metastasis if the injected cells are labeled by luciferase
Centrifuge tube (15 mL, 50 mL)	Shanghai YueNian Biotechnology Co., Ltd	430790, Corning	
EDTA solution	Wuhan Xavier Biotechnology Co., Ltd	G1105	For decalcification of bone tissue
F-12 medium	Shanghai YueNian Biotechnology Co., Ltd	21700075, GIBCO	Cell culture medium
Formalin solution	Shanghai YueNian Biotechnology Co., Ltd	BL539A	For fixing the specimen of each mouse
Isoflurane	Shenzhen RWD Life Technology Co., Ltd	VETEASY	For anesthesia
Lipofectamine 2000	Shanghai YueNian Biotechnology Co., Ltd	11668027, Thermo fisher	Plasmid transfection reagent
PC-3 cell line	Cell Bank of Chinese Academy of Sciences	TCHu 158	Prostate cancer cell line
Phosphate-buffered saline	Beyotime Biotechnology	ST447	Wash the human osteosarcoma cells
Trypsin (0.25%)	Shanghai YueNian Biotechnology Co., Ltd	25200056, Gibco	For detaching the cells
Vector (pLV-luciferase)	Shanghai YueNian Biotechnology Co., Ltd	VL3613	Plasmid for transfection
X-ray imaging system	Brook (Beijing) Technology Co., Ltd	FX PRO	For obtaining x-ray images to detect tumor growth

<p>μCT80</p>	<p>Shenzhen Fraun Technology Service Co., Ltd</p>	<p>Scanco Medical AG, Switzerland</p>	<p>For detection of bone destruction. The micro-CT is equipped with 3DCalc, cone reconstruction, and μCT Ray V3.4A model visualization software.</p>
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