

Materials List for:

Orthotopic Injection of Breast Cancer Cells into the Mammary Fat Pad of Mice to Study Tumor Growth.

Begüm Kocatürk¹, Henri H. Versteeg¹

¹Department of Hemostasis and Thrombosis, Leiden University Medical Center

Correspondence to: Henri H. Versteeg at h.h.versteeg@lumc.nl

URL: <https://www.jove.com/video/51967>

DOI: [doi:10.3791/51967](https://doi.org/10.3791/51967)

Materials

Name	Company	Catalog Number	Comments
Bouin's solution	Sigma-Aldrich	HT10132	Used for investigating the metastasis on lungs
Formalin solution	Sigma-Aldrich	HT501128	Used to fix the tissues
Matrigel, growth factor reduced	Corning	356230	Cells can be resuspended in matrigel for injection
Mosquito forceps	Fine Science Tools	13008-12	Used for stitching
Angled forceps	Electron microscopy sciences	72991-4c	These make the exposure of mammary fat pad easier
Scissors	B Braun Medicals	BC056R	Used to cut open the mice
Straight forceps	B Braun Medicals	BD025R	This is used to open up the skin to expose mammary fat pad
NOD scid gamma mice	Charles River	005557	Experimental animal used for experiment
MDA-MB-231	Sigma-Aldrich	92020424	Experimental cells used for injections
Oculentum simplex	Teva Pharmachemie		Ophthalmic ointment used to prevent drying out of eyes
Betadine	Fischer Scientific	19-898-859	Ionophore, used to disinfect the surgical area
Xylazin/Ketamine	Sigma-Aldrich	X1251, K2753	Use injected anesthesia as 10mg/kg and 100mg/kg body weight respectively
Temgesic	Schering-Plough		Use the painkiller as 0.05-0.1 mg/kg body weight
DMEM	Life sciences	11995	For trypsin neutralization, use media with serum(FBS:media 1:10 volume); for injection, use media with no serum
Buffered sodium citrate	Aniara	A12-8480-10	Use the volume ratio as citrate: blood; 1:9