

Materials List for:

A Method to Target and Isolate Airway-innervating Sensory Neurons in Mice

Melanie Maya Kaelberer^{1,2}, Sven-Eric Jordt²

¹Department of Cellular & Molecular Physiology, Yale University

²Department of Anesthesiology, Duke University Medical Center

Correspondence to: Sven-Eric Jordt at sven.jordt@dm.duke.edu

URL: <https://www.jove.com/video/53917>

DOI: [doi:10.3791/53917](https://doi.org/10.3791/53917)

Materials

Name	Company	Catalog Number	Comments
Fast Blue	Polysciences, Inc.	17740-2	stock 2 mg/ml in water
NeuroTrace 530/615 red Nissle stain	Life Technologies	N21482	
Dimethyl Sulfoxide (DMSO)	Fisher Scientific	D128-500	
Dulbecco's Phosphate Buffered Saline (PBS) Ca and Mg free	Gibco	14190-144	
Advanced DMEM/F12	Gibco	12634-010	
glutamine (Glutamax)	Gibco	35050-061	
HEPES	Gibco	15630-080	
N2	Gibco	17502-048	
B27 (no vitamin A)	Gibco	12587-010	
Nerve Growth Factor (NGF)	Sigma	N6009	stock 50 µg/ml in PBS/10% FBS
digestion enzyme, Liberase DH Research Grade	Roche	5401054001	stock 2.5 mg/ml in water
particle solution (Percoll)	Sigma	P1644-25ML	
Heating block	LabNet		
70 µm cell strainer	Falcon	352350	
Absolute Ethanol (200 proof)	Fisher Scientific	BP2818-500	
RNase free water	Fisher Scientific	BP2484-100	
RNase decontamination reagent, RNase AWAY	invitrogen	10328-011	
2-mercaptoethanol	VWR	EM-6010	
RNA extraction kit, RNeasy Plus Micro Kit	Qiagen	74034	
DNase kit, RNase-Free DNase Set	Qiagen	79254	
DNase	Sigma	D5025-15KU	stock 10 mg/ml in 0.15 M NaCl
Propidium Iodide	Sigma	P4170-10MG	stock 10 µg/ml in PBS
Microfluidic electrophoresis system (TapeStation 2200)	Agilent		