

Materials List for:

Ex vivo Method for High Resolution Imaging of Cilia Motility in Rodent Airway Epithelia

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Materials

Name	Company	Catalog Number	Comments
Leibovitz's L-15 Medium	Invitrogen	21083-027	No phenol red
Fetal bovine serum	Hyclone	SH30088.03	
Penicillin-Streptomycin	Invitrogen	15140-122	
2x fine forceps	Roboz	RS-4976	
Dissection scissors	Roboz	RS-5676	
Micro dissection scissors	Roboz	RS-5620	
Scalpel	Roboz	RS-9801-15	
P1000 pipetman	Gilson, Inc	F123602	
P1000 tips	Molecular BioProducts	2079E	
18 mm round glass cover slips	Fisher Scientific	430588	
Plastic 35 mm culture dishes	Corning	430588	
Glass bottom 35 mm culture dishes	Warner Instruments	W3 64-0758	
Silicone sheet 0.012" (0.3 mm) thick	AAA Acme Rubber Co	CASS-.012X36-63908	
0.20 µm diameter Fluoresbrite YG Carboxylate Microspheres	Polysciences	09834-10	
Inverted microscope, with 100x oil objective and DIC filters	Lecia	DMIRE2	Brand is not critical.
100-watt mercury lamp, epifluorescent FITC excitation/emission filters	Lecia		Brand is not critical.
Microscope stage Incubator	Lecia	11521749	Not required if imaging cilia at room temperature
High-speed camera bright field	Vision Research	Phantom v4.2	Brand is not critical. Must be faster than 125 fps
High-speed fluorescent camera	Hamamatsu	C9100-12	Brand is not critical. Must be faster than 10 fps
Movie analysis software	National Institutes of Health	ImageJ with MtrackJ plugin	