

Materials List for

Automated Vibratome Sectioning of Agarose-Embedded Lung Tissue for Multiplex Fluorescence Imaging

Qi Wang^{1,2,3}, Nicholas B. Bechet^{1,2,3}, Sandra Lindstedt^{1,2,3,4}

¹Wallenberg Centre for Molecular Medicine, Lund University ²Department of Clinical Sciences, Lund University ³Lund Stem Cell Centre, Lund University

⁴Department of Cardiothoracic Surgery and Transplantation, Skåne University Hospital

Corresponding Author

Nicholas B. Bechet

nicholas.bechet@med.lu.se

Citation

Wang, Q., Bechet, N.B., Lindstedt, S. Automated Vibratome Sectioning of Agarose-Embedded Lung Tissue for Multiplex Fluorescence Imaging. *J. Vis. Exp.* (200), e65943, doi:10.3791/65943 (2023).

Date Published

October 6, 2023

DOI

10.3791/65943

URL

jove.com/video/65943

Materials

Name	Company	Catalog Number	Comments
24 well tissue culture inserts	SARSTEDT	83.3932.300	
4% paraformaldehyde	SOLVECO	6095714	
4', 6-diamidino-2-phenylindole (DAPI)	Thermo Fisher scientific	D1306	
50 mL Falcon tube	SARSTEDT	2045221	
Cluster of differentiation 31 (CD31)	Abcam	ab28364	
Confocal microscope	Nikon	A1R HD25	
Elastin	Abcam	ab23747	
Epredia X1000 Coverslip	Thermo Fisher scientific	10318963	
Epredia SuperFrost Plus Adhesion slides	Thermo Fisher scientific	10149870	
Forceps	AESFULAP	FB395R	
Goat anti-mouse 647	Invitrogen	A21235	
Goat anti-rabbit 568	Invitrogen	A11011	
Human type II cells	Terrace Biotech	TB-27AHT2-280	
Invitrogen Fluoromount-G Mounting Medium	Thermo Fisher scientific	E41473	
Low gelling temperature Agarose	Sigma-Aldrich	1003467046	
Lycopersicon Esculentum lectin	Thermo Fisher scientific	2531965	
Phosphate-buffered saline (PBS)	Thermo Fisher scientific	50-100-8798	
Plastic cup	kontorsgiganten	885221	
Scissors	STILLE	101-8380-18	
Smooth muscle actin	Abcam	ab5694	
Sodium azide	Sigma-Aldrich	K54329188239	
Super glue	LOCTITE	2721643	
Vibrating microtome	Leica	VT1200S	