

Materials List for:

Purification of Mouse Brain Vessels

Anne-Cécile Boulay^{1,2,3}, Bruno Saubaméa⁴, Xavier Declèves⁴, Martine Cohen-Salmon^{1,2,3}

¹Collège de France, Center for Interdisciplinary Research in Biology (CIRB), Centre National de la Recherche Scientifique CNRS, Unité Mixte de Recherche 7241, Institut National de la Santé et de la Recherche Médicale

²Centre Interdisciplinaire de Recherche en Biologie

³MEMOLIFE Laboratory of Excellence and Paris Science, Lettre Research University

⁴Université Paris Descartes, Faculté de Pharmacie, Université Paris Diderot

Correspondence to: Martine Cohen-Salmon at martine.cohen-salmon@college-de-france.fr

URL: <https://www.jove.com/video/53208>

DOI: [doi:10.3791/53208](https://doi.org/10.3791/53208)

Materials

Name	Company	Catalog Number	Comments
Tissue Grinder Size C	Thomas scientific	3431E25	
centrifuge 5415 R	Eppendorf		
centrifuge 5810 R	Eppendorf	5811000320	
High-performance, Modular Stereomicroscope	Leica	MZ6	
Compact System Provides High Quality Leica LED1000	Leica	LED1000	
low binding tips (P1000)	Sorenson BioScience	14200T	
Swinnex 47 mm filter holder PP 8/ Pk	Millipore	SX0004700	
Nylon net filter disc Hydrophilic 20 µm 47 mm 100/Pk	Millipore	NY2004700	
Nylon net filter disc Hydrophilic 100 µm 47 mm 100/Pk	Millipore	NY1H04700	
Standard Wall Borosilicate Tubing	Sutter Instrument	B150-86-7.5	
Microscope Slides	Thermo Scientific	1014356290F	
Cover Slips, Thickness 1	Thermo Scientific	P10143263NR1	
0.2 ml Thin-walled tubes and domed cap	Thermo Scientific	AB-0266	
PARAFILM M (roll size 4 in. x 125 ft)	Sigma	P7793-1EA	
HBSS, no calcium, no magnesium, no phenol red	Life technology	14175-129	
HEPES (1M)	Life technology	15630056	
Dextran from Leuconostoc spp. Mr ~70,000	Sigma	31390	
Bovine serum albumin	Sigma	A2153	
10x PBS	Euromedex	ET330	
16% Formaldehyde (w/v), Methanol-free	Thermo Scientific	28908	
Triton X-100	Sigma	X100	
bisBenzimide H 33342 trihydrochloride (Hoechst)	Sigma	14533	
Mounting medium Fluoromount-G	Southern Biotech	0100-01	

Isolectin GS-IB4 From Griffonia simplicifolia, Alexa Fluor 488 Conjugate; Dilution 1/100	Life technology	I21411	
Agrin (rabbit) ; dilution 1/400	kindly provided by Dr Markus A Ruegg		
Anti ZO-1 (mouse, clone 1A12)	Life technology	33-9100	dilution 1:500
Anti Smooth Muscle Actin (mouse, clone 1A4)	Sigma	A2547	dilution 1:500
Anti GFAP (mouse, clone GA5)	Sigma	G3893	dilution 1:500
Anti AQP4 (rabbit)	Sigma	A5971	dilution 1:500
Anti Cx43 (mouse, Clone 2)	BD Biosciences	610061	dilution 1:500
Anti Olig2 (rabbit)	Millipore	AB9610	dilution 1:200
Anti NF-M (mouse)	provided by Dr Beat M. Riederer, University of Lausanne, Switzerland.	dilution 1:10	
Anti Iba1 (rabbit)	Wako	019-19741	dilution 1:400
Alexa Fluor 488 Goat Anti-Mouse IgG (H+L) Antibody	Life technology	A11029	dilution 1:2,000
Goat anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor 488 conjugate	Life technology	A11034	dilution 1:2,000
Alexa Fluor 555 Goat Anti-Mouse IgG (H+L) Antibody	Life technology	A21424	dilution 1:2,000
Goat anti-Rabbit IgG (H+L) Secondary Antibody, Alexa Fluor 555 conjugate	Life technology	A21429	dilution 1:2,000