

Materials List for:

Isolation and Fluorescence Imaging for Single-particle Reconstruction of *Chlamydomonas* Centrioles

Nikolai Klena^{*1}, Davide Gambarotto^{*1}, Maeva Le Guennec¹, Susanne Borgers¹, Paul Guichard¹, Virginie Hamel¹

¹Department of Cell Biology, Sciences III, University of Geneva

*These authors contributed equally

Correspondence to: Paul Guichard at Paul.Guichard@unige.ch, Virginie Hamel at virginie.hamel@unige.ch

URL: <https://www.jove.com/video/58109>

DOI: [doi:10.3791/58109](https://doi.org/10.3791/58109)

Materials

Name	Company	Catalog Number	Comments
Mouse monoclonal anti- α -tubulin (clone DM1A)	Abcam	ab7291	dilution 1:300
DNaseI	Roche	10104159001	
12 mm coverslips	Roth	YX03.1	
18 mm coverslips	Roth	LH23.1	
K ₂ HPO ₄	Fluka	60355	
KH ₂ PO ₄	Fluka	60230	
Tris base	Biosolve Chimie SARL	0020092391BS	
acetic acid	Carlo Erba Reagents	524520	
NH ₄ Cl	Sigma	A-4514	
CaCl ₂	Sigma	C-7902	
MgSO ₄	Sigma	63140-500G-F	
steritop filter	Millipore	SCGPT05RE	
sucrose	Sigma	S7903-1KG	
HEPES	AppliChem PanReac	A3724,0250	
PIPES	Sigma	P6757-500G	
MgCl ₂	ACROS ORGANICS	197530010	
NP-40	AppliChem PanReac	A1694,0250	
Round-bottom (Kimble) tubes 15 mL	Fisherscientific	09-500-34	
Round-bottom (Kimble) tubes 30 mL	Fisherscientific	09-500-37	
cover glass staining rack	Thomas scientific	8542E40	
crystal polystyrene transmission lab box	FISHERS	11712944	
Methanol	VWR	20864.32	
BSA	Roche	10735086001	
Triton X100	Roth	3051.3	
goat anti-mouse coupled to Alexa 488	invitrogen	A11029	dilution 1:1,000
goat anti-rabbit coupled to Alexa 568	invitrogen	A11036	dilution 1:1,000
mounting medium	abcam	ab188804	
Tube, thinwall polypropylene	Beckman Coulter	326823	
Poly-D-Lysine 1 mg/mL	SIGMA	A-003-E	

Mouse monoclonal anti-Polyglutamylation modification mAb (GT335)	Adipogen	AG-20B-0020	dilution 1:1,000
glycerol mounting medium with DAPI and DABCO	Abcam	ab188804	
50 mL conical tubes	Falcon	14-432-22	
Eppendorf 5810R centrifuge	Eppendorf	5811000622	
Beckman JS-13.1 swinging bucket rotor	Beckman Coulter	346963	
Beckman SW 32Ti rotor	Beckman Coulter	369694	
parafilm	Bemis	13-374-10	
Leica TCS SP8 with Hyvolution mode	Leica		
OSRAM L18W/954 LUMILUX	Luxe Daylight/ OSRAM		
Whatman filter paper	Sigma	WHA1001325	
CrSAS-6/Bld12 antibody			dilution 1:300 (Hamel <i>et al.</i> , 2014)
Scipion	http://scipion.i2pc.es/		
EM CCD camera (Andor iXON DU897)	Andor		