

Materials List for:

Nano-fEM: Protein Localization Using Photo-activated Localization Microscopy and Electron Microscopy

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Materials

Name	Company	Catalog Number	Comments
High-pressure freezer	ABRA	HPM 010	EMPact and HPM 100 from Leica or hpf-01 from Wohlwend can also be used.
Automated freeze substitution unit	Leica Microsystems	AFS 2	AFS 1 can also be used.
Zeiss PALM	 Carl Zeiss, Inc.	ELYRA P.1	Nikon and Vutara also sell commercial PALM microscopes.
Scanning electron microscope	FEI	Nova nano	Other high-resolution SEM microscopes can be used.
Acetone	EMS	RT10016	
Ethanol	Sigma-Aldrich	459844-1L	
Osmium tetroxide	EMS	RT19134	
Potassium permanganate	EMS	RT20200	
Albumin from bovine serum	Sigma-Aldrich	A3059-50G	
Uranyl acetate	Polysciences, Inc.	21447-25	pH of uranyl acetate from this company is slightly higher.
Glycol methacrylate (GMA)	SPI Supplies	02630-AA	Low acid, TEM grade.
N,N-Dimethyl-p-toluidine	Sigma-Aldrich	D9912	
Cryo vials	Nalge Nunc international	5000-0020	
Glass vials	EMS	72632	
Aclar film	EMS	50425-10	
BEEM capsule	EBSciences	TC	Polypropylene
3/8" DISC punches	Ted Pella, Inc.	54741	
Gold nanoparticles	microspheres-nanospheres.com	790122-010	Request 2x concentrated solution