

Materials List for:

Characterization of Calcification Events Using Live Optical and Electron Microscopy Techniques in a Marine Tubeworm

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Materials

Name	Company	Catalog Number	Comments
Hexamethyldisilazane	Electron Microscopy Sciences	16700(EM)	
Osmium Tetroxide 2% Aqueous Solution	Electron Microscopy Sciences	19192	
IBMX 3-Isobutyl-1-methylxanthine	ThermoFisher Scientific	PHZ1124	
Nigericin, Free Acid	ThermoFisher Scientific	N7143-5MG	
35 mm diameter dish, hole size 27 mm, Glass No.0, Non-coat	ThermoFisher Scientific	D110400	
5-(and-6)-Carboxy SNARF-1, Acetoxymethyl Ester, Acetate	ThermoFisher Scientific	C-1271	
BDH Potassium Chloride, ACS Grade	VWR	BDH0258-500G	
Paraformaldehyde reagent grade, crystalline	Sigma	P6148	
1 M Hydrochloric Acid for Volumetric Analysis	Wako Pure Chemical Industries, Ltd	083-01095	
0.05 M Sodium Hydroxide Solution for Volumetric Analysis	Wako Pure Chemical Industries, Ltd	199-02185	
Calcein	Sigma	C0875	
FASW	Iwaki Co. Ltd.	Rei-sea Marine	
Mixed Cellulose Ester Membranes; 47 mm dia, 0.45 µm	ADVANTEC	A045A047A	
ethanol	Wako Pure Chemical Industries, Ltd	051-00476	
Artificial seawater for buffers			by SOP06 of DOE (1994), cdiac.ornl.gov/ftp/cdiac74/sop06.pdf
Sodium Chloride	Wako Pure Chemical Industries, Ltd	191-01665	
Potassium Chloride	Wako Pure Chemical Industries, Ltd	163-03545	
Magnesium Chloride Hexahydrate	Wako Pure Chemical Industries, Ltd	135-00165	
Calcium Chloride	Wako Pure Chemical Industries, Ltd	039-00475	
Sodium Sulfate	Wako Pure Chemical Industries, Ltd	197-03345	

Hydrochloric Acid	Wako Pure Chemical Industries, Ltd	089-08415	
2-amino-2-hydroxymethyl-1,3-propanediol (tris)	Wako Pure Chemical Industries, Ltd	207-06275	
2-aminopyridine	Wako Pure Chemical Industries, Ltd	011-02775	
Orion 5-star Plus pH meter	Thermo Scientific		
PrpHecT ROSS Micro Combination pH Electrode 8220BNWP	Thermo Scientific		
Axiovision, Version 4.6, Axio Observer Z1	Zeiss		
ImageJ	NIH, Bethesda, MD, USA		
HRTEM H500	Hitachi		
SU6600 VPSEM	Hitachi		
NB5000 Focused Ion and Electron Beam (FIB-SEM) system	Hitachi		