

Materials List for:

Scanning Electron Microscopy of Macerated Tissue to Visualize the Extracellular Matrix

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Materials

Name	Company	Catalog Number	Comments
Calcium Chloride	Electron Microscopy Sciences	12340	100 g
Carbon Adhesive	Electron Microscopy Sciences	12664	30 g
Carbon Adhesive Tabs	Electron Microscopy Sciences	77825	order to fit stubs
Double Edge Razor Blades Stainless Steel	Ted Pella, Inc	121-6	250/pkg
Ethanol	Electron Microscopy Sciences	15055	450 ml
Glutaraldehyde, 50% Solution	Electron Microscopy Sciences	16310	EM grade, distillation purified
Hydrochloric Acid	Electron Microscopy Sciences	16760 or 16770	100 ml
Monosodium Phosphate NaH ₂ PO ₄	Sigma-Aldrich	S9251-250G	250 g
Osmium Tetroxide	Electron Microscopy Sciences	19100	1 g
Silver Conductive Adhesive	Electron Microscopy Sciences	12686-15	15 g
Sodium hydroxide (NaOH)	Sigma-Aldrich	S8045-1KG	1 kg
Sodium Phosphate Dibasic (Na ₂ HPO ₄)	Sigma-Aldrich	S3264-500G	500 g
Tannic Acid, 5% Aqueous	Electron Microscopy Sciences	21702-5	500 ml
Trihydrate Sodium Cacodylate	Electron Microscopy Sciences	12300	100 g
Gold-palladium Alloy or Gold	Refining Systems, Inc.	varies	specific to the sputter coater make and model
Critical Point Dryer	Electron Microscopy Sciences	850	
Plain Wooden Applicators	Fisher Scientific	23-400-102	
Quanta 250 Environmental SEM	FEI	Q250 SEM	
Sputter Coater	Cressington Scientific Instruments Ltd.	Model 108	
Aluminum SEM Sample Stubs	Electron Microscopy Sciences	75220-12	specific to the microscope