

Materials List for:

Tandem High-pressure Freezing and Quick Freeze Substitution of Plant Tissues for Transmission Electron Microscopy

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Materials

| Name | Company | Catalog Number | Comments |
|---|--------------------------------|----------------|--|
| Wohlwend HPF Compact 02 High Pressure Freezing Machine | Technotrade International, Inc | HPF02 | With integrated oscilloscope to display freezing and pressure curves; PC (not included) is required for display of freezing parameters |
| Holder for DN 3 x 0.5 mm aluminum specimen carriers | Technotrade International, Inc | 290 | |
| Specimen carriers, P=1,000, DN 3 x 0.5 aluminum, type A | Technotrade International, Inc | 241-200 | |
| Specimen carriers, P=1,000, DN 3 x 0.5 aluminum, type B | Technotrade International, Inc | 242-200 | |
| Storage Dewar 20.5 L, MVE Millennium 2000 XC20 | Chart | | |
| Baker's yeast | | | The older the better, to avoid excessive gas (CO ₂) production |
| Tooth picks | | | |
| Thermocouple data logger EL-USB-TC | OMEGA Engineering Inc. | OM-EL-USB-TC | Replacement battery purchased separately |
| Temperature probe | Electron Microscopy Sciences | 34505 | |
| Heater block 12/13 mm | | | |
| Rotary shaker | Fisher Scientific | 11-402-10 | |
| Leaf punch - Harris Uni-core 2.00 | Ted-Pella Inc. | 15076 | |
| Pink dental wax | Electron Microscopy Sciences | 72660 | |
| Cryogenic vials 2 ml | Electron Microscopy Sciences | 61802-02 | |
| Methanol | | | |
| Blow dryer | | | |
| Dry ice | | | |
| Liquid nitrogen | | | |
| Acetone | | | |
| Forceps | | | Several pairs |