

Materials List for:

Micron-scale Phenotyping Techniques of Maize Vascular Bundles Based on X-ray Microcomputed Tomography

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Materials

Name	Company	Catalog Number	Comments
Skyscan 1172 X-ray computed tomography system	Bruker Corporation, Belgium	NA	For CT scanning
CO ₂ critical point drying system (Leica CPD300)	Leica Corporation, Germany	NA	For sample drying
Ethanol	Any	NA	For FAA fixation
Formaldehyde	Any	NA	For FAA fixation
Acetic acid	Any	NA	For FAA fixation
Surgical blade	Any	NA	For cutting the sample segments
3D printer	Makerbot replicator 2, MakerBot Industries, USA	NA	For printing the sample baskets of maize root, stem, and leaf
Centrifuge tube	Corning, USA	NA	Place the root, stem, or leaf materials
Solid iodine	Any	NA	For sample dyeing
SkyScan Nrecon software	SkyScan NRecon, Version: 1.6.9.4, Bruker Corporation, Belgium	NA	For image reconstruction
VesselParser software	VesselParser, Version: 3.0, National Engineering Research Center for Information Technology in Agriculture (NERCITA), Beijing, China	NA	Image analysis protocol for single CT image of maize stem or leaf
ScanIP	ScanIP, Version: 7.0; Simpleware, Exeter, UK	NA	3D image processing software
Latex gloves	Any	NA	
Tweezers	Any	NA	