

Materials List for:

Ecosystem Fabrication (EcoFAB) Protocols for The Construction of Laboratory Ecosystems Designed to Study Plant-microbe Interactions

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Materials

Name	Company	Catalog Number	Comments
3D printed custom mold	LBNL		STL files available here www.eco-fab.org ; The EcoFABs molds described here were printed by FATHOM: http://studiofathom.com
Dow sylgard 184 silicone elastomer clear kit	Ellsworth Adhesives	184 SIL ELAST KIT 0.5KG	
Air duster spray	VWR	75780-350	any compressed gas duster should work
15 gauge blunt needle	VWR	89166-240	
5 mL syringe with Luer-Lok Tip	VWR	BD309646	
3"x2" microscope glass slide	VWR	48382-179	
1.75" x 2.56" x 3.56" EcoFAB box	Amazon	B005GAQ25Q	
4" x 3 1/4" microscope glass slide	Ted Pella	260231	
4.87" x 4.87" x 5.50" EcoFAB box	Amazon	B00P9QVOS2	
Plasma Cleaner	Harrick Plasma	PDC-001	
3D printed custom clamp	LBNL		STL files available from Trent Northen's lab
Sterile hood	AirClean Systems	AC600 Series PCR Workstations	
PTFE syringe tubing	Sigma-Aldrich	Z117315-1EA	
Ethanol	VWR	89125-172	
Bleach			
Murashige and Skoog (MS) Macronutrient Salt Base	Phytotechnologies Laboratories	M502	
Murashige and Skoog (MS) Micronutrient Salt Base	Phytotechnologies Laboratories	M554	
Soil	Hummert International	Pro-Mix PGX	
Phytigel	Sigma-Aldrich	71010-52-1	
Arabidopsis thaliana	Lehle Seeds	WT-24 Col-4 Columbia wild type	
Brachypodium distachyon	LBNL	Standard Bd-21 line	Available from John Vogel's lab
Panicum virgatum	The Samuel Roberts Noble Foundation	Alamo switchgrass	
Micropore tape	VWR	56222-182	
LC-MS grade methanol	VWR	JT9830-3	
Lyophilizer	LABCONCO	FreeZone 2.5 Plus	

SpeedVAC concentrator	Thermo Scientific	Savant™ SPD111 SpeedVac	
Ultrafree-MC GV Centrifugal Filter-0.22 µm	Millipore	UFC30GV00	
Liquid chromatography system	Agilent	Agilent 1290 LC system	
Q Exactive mass spectrometer	Thermo Scientific	Q Exactive™ Hybrid Quadrupole-Orbitrap MS	
NIMS chip and custom MALDI plate	LBNL		For detailed protocol see: doi:10.1038/nprot.2008.110
MALDI mass spectrometer	AB Sciex	TOF/TOF 5800 MALDI MS	
Nano-coated LED grow light strip	LED World Lighting	HH-SRB60F010-2835	
Power supply	LED World Lighting	MD45W24VA, LV100-24N-UNV-J	
TC420 controller	Amazon	B0197U7R8Q	
Silicone LED clips	Amazon	B00N9X1GI0	
Hot glue gun	Amazon	B006IY359K	
Female-to-bare LED connector cable	LED World Lighting	HH-F05	
Female-to-male LED connector extension cable	LED World Lighting	HH-MF1	
20AWG 2-wire cable	LED World Lighting	6102051TFT4	
WAGO 221-415 Splicing Connector	LED World Lighting	221-415	