

Materials List for:

A Hydroponic Co-cultivation System for Simultaneous and Systematic Analysis of Plant/Microbe Molecular Interactions and Signaling

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Materials

Name	Company	Catalog Number	Comments
plant seeds (<i>Arabidopsis thaliana</i> Col-0)	Arabidopsis Biological Resource Centre	CS7000	https://abrc.osu.edu/order-stocks
bacteria (<i>Agrobacterium tumefaciens</i> C58)	University of Washington	N/A	
labeled bacteria	in-house		optional, depends on downstream analyses
vortex	(various)		
microcentrifuge tubes	(various)		
microcentrifuge	(various)		
5% sodium hypochlorite	(various)		
double distilled water	(various)		
autoclave	(various)		
micropipette	(various)		
70% ethanol	(various)		
Murashige and Skoog (MS) basal salts	Sigma-Aldrich	M5524	
sucrose	(various)		
MES	(various)		
B5 vitamin mix	Sigma-Aldrich	G1019	
phytoagar	(various)		
Deep Petri dishes	(various)		
stainless steel mesh	Ferrier Wire Goods Company Ltd	N/A	grade: 304; mesh count: 40 × 40; wire DIA: 0.01
micropore tape, 1"	3M	1530-1	
diurnal growth chamber	(various)		
cylindrical glass tanks, 100 × 80 mm	Pyrex	3250	other sizes can be used, in which case liquid content may need adjustment
flow hood	(various)		
forceps	(various)		
yeast extract	(various)		
tryptone	(various)		
MgSO ₄	(various)		
shaking incubator	(various)		
spectrophotometer	(various)		

NaCl	(various)		
shaker	(various)		
scissors	(various)		optional, depends on downstream analyses
fluorescence microscope	(various)		optional, depends on downstream analyses
microscope slides and cover slips	(various)		optional, depends on downstream analyses
nail polish	(various)		optional, depends on downstream analyses
Bacterial RNA extraction kit	(various)		optional, depends on downstream analyses
plant RNA extraction kit (RNeasy Plant Mini Kit)	Qiagen	74903 or 74904	optional, depends on downstream analyses
material and equipment for qRT-PCR	(various)		optional, depends on downstream analyses
material and equipment for microarray analysis	(various)		optional, depends on downstream analyses
liquid nitrogen	(various)		optional, depends on downstream analyses
mortar and pestle	(various)		optional, depends on downstream analyses
0.2 µm pore filter	(various)		optional, depends on downstream analyses
50 mL conical tubes	(various)		optional, depends on downstream analyses
freeze dryer	(various)		optional, depends on downstream analyses
sealable test tubes	(various)		optional, depends on downstream analyses
ethyl acetate	(various)		optional, depends on downstream analyses
nitrogen gas	(various)		optional, depends on downstream analyses
material and equipment for HPLC	(various)		optional, depends on downstream analyses
material and equipment for ESI-TOF-MS	(various)		optional, depends on downstream analyses