

Direct Observation and Automated Measurement of Stomatal Responses to *Pseudomonas syringae* pv. *tomato* DC3000 in *Arabidopsis thaliana*

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jove.com/video/66112

Materials

Name	Company	Catalog Number	Comments
Agar	Nakarai tesque	01028-85	
Airbrush kits	ANEST IWATA	MX2900	Accessory kits for SPRINT JET
Biotron	Nippon Medical & Chemical Instruments	LPH-411S	Plant Growth Chamber with white fluorescent light
Glycerol	Wako	072-00626	
Half tray	Sakata	72000113	A set of tray and lid
Hyponex	Hyponex	No catalogue number available	Dilute the solution of Hyponex at a ratio of 1:2000 in deionized water for watering plants
Image J	Natinal Institute of Health	Download at https://imagej.nih.gov/ij/download.html	Used for manual measurement of stomatal aperture
K ₂ HPO ₄	Wako	164-04295	
KCl	Wako	163-03545	
KOH	Wako	168-21815	For MES-KOH
MES	Wako	343-01621	For MES-KOH
Portable stomatal imaging device	Phytometrics	Order at https://www.phytometrics.jp/	Takagi et al.(2023) doi: 10.1093/pcp/pcad018.
Rifampicin	Wako	185-01003	Dissolve in DMSO
Silwet-L77	Bio medical science	BMS-SL7755	silicone surfactant used in spray inoculation
SPRINT JET	ANEST IWATA	IS-800	Airbrush used for spray inoculation
SuperMix A	Sakata seed	72000083	Mix with Vermiculite G20 in equal proportions for preparing soil
Tryptone	Nakarai tesque	35640-95	
Vermiculite G20	Nittai	No catalogue number available	Mix with Super Mix A in equal proportions for preparing soil
White fluorescent light	NEC	FHF32EX-N-HX-S	Used for Biotron