

Materials List for:

Identification of Novel Regulators of Plant Transpiration by Large-Scale Thermal Imaging Screening in *Helianthus Annuus*

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URL: <https://www.jove.com/video/60535>

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Materials

Name	Company	Catalog Number	Comments
1020 plastic growing trays without drain holes			Standard 10 x 20 inch trays
2.0 mL microtubes, capless	Genesee Scientific	22-283NC	
Abscisic acid (ABA)	Sigma-Aldrich	A1049	
Air pump	Active Aqua	AAPA7.8L	2 Outlets, 3W, 7.8 L/min
Airstones			
Chemical compound library	MicroSource Discovery		Natural Product Collection
Creative Versa-Tool (wood burning tool)	Nasco	9724549	
Dimethylsulfoxide (DMSO), plant cell culture tested	Sigma-Aldrich	D4540	
Dwarf Sunspot Sunflower seeds	Outsidepride.com		
Erythrosin B	Sigma-Aldrich	200964	
Hydroponics fertilizer set (FloraBloom, FloraGrow, FloraMicro)	General Hydroponics	GL51GH1421.31.11	
Kimwipes Delicate Task Wipers	Kimberly-Clark Professional	34155	
Laptop	Dell		
MES hydrate	Sigma-Aldrich	M2933	
Microdissection scissors			
Microsoft Excel	Microsoft		
Potassium hydroxide (KOH)	Sigma-Aldrich	P5958	
ResearchIR Software	FLIR		
R-Tech Rigid Polystyrene Foam Board	Insulfoam		
Seedholders	Araponics	N/A	
Super Tub (plastic utility tub)	Maccourt	ST3608	36 x 24 x 8 inch tub used for hydroponics
T450sc LWIR (Long-Wave Infrared) Handheld Thermal Imaging Camera	FLIR	FLIR-T62101	Comes with required charging cable and USB cable needed to connect to laptop
Vermiculite			
Water filter	SunSun	HW-304B Pro Canister Filter	