

Materials List for:

A New Application of the Electrical Penetration Graph (EPG) for Acquiring and Measuring Electrical Signals in Phloem Sieve Elements

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Materials

Name	Company	Catalog Number	Comments
Brass connector pins	EPG Systems/hardw.shop		Φ 1.2 mm
Thin copper wire	EPG Systems/hardw.shop		approx. Φ 0.2 mm
Thin gold wire	EPG Systems		Φ 18 μm
Soldering fluid	hardware shop		matching the soldering wire
Resin-cored soldering wire	hardware shop		
Styrofoam	any		
Water-based silver glue	EPG Systems		recipe in: www.epgsystems.eu
Paper wipes	Kimberly-Clark	5511	
Soldering bolt	any		
Stereomicroscope	Hund Wetzlar		minimum magnification is 10X
Small scissors	Fine Science Tools	14088-10	
Scalpel	Fine Science Tools	10050-00	
Fine forceps	Fine Science Tools	11231-20	
Vortex	A. Hartenstein	L46	
Watercolor brushes	any		Number 1 or 2
Air suction device			see description in: www.epgsystems.eu
Insect pins	any		No. 1 or 2
Solid table			
Faraday cage			Hand made
Computer	Fujitsu Siemens		
Data acquisition software	EPG Systems		Styler+d
Giga-4 (-8) Complete System	EPG Systems		
includes the following:			
Main control box with USB output		Di155/Di710	12/14 bit, rate 100 Hz (softw. fixed)
EPG probes 4 (8)			50x DC pre-amplifier
Swivel clamps on rod			
DC power adaptor			bipolar, 230/115 VAC to -/+8 VDC
Plant electrodes and cables			
Additional test and ground cables			