

Materials List for:

Application of Two-spotted Spider Mite *Tetranychus urticae* for Plant-pest Interaction Studies

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Materials

Name	Company	Catalog Number	Comments
Plant material:			
California red kidney bean	Stokes, Thorold, ON, Canada		2 week old, well infested with spider mites 2 or 3 days before use. Other cultivars of <i>Phaseolus vulgaris</i> can be used.
Chemicals:			
Tween 20	Sigma-Aldrich	P9416	1% stock solution is prepared to simplify aliquoting
Tap water			At room temperature, heat- and cold-shock affect mite survival rate and performance
Other materials and equipment:			
Plastic tray			
Set of scissors			
2 L beakers			
Paper towels			
Sets of sieves	Manufactured in house		Detailed instructions are available
Thin brush			
Pipettes			
Pipette tips			0.2 and 1 ml
1.5 ml centrifuge tubes			
Air pump			Aquarium type pump with inverted air flow. Vacuum line can be used. Required pressure drop is approx. 2-4 psi
Stereoscope			
Scanner	Epson	V30	Any flatbed scanner allowing necessary degree of control over scan quality. We use Epson V30 for our experiments.
Computer			Windows or OS X PC which is compatible with scanner hardware and Adobe Photoshop software.

Adobe Photoshop software	Adobe Systems Inc., San Jose, CA, USA	various	Any version with Histogram tool included.
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