

Materials List for:

A Wind Tunnel for Odor Mediated Insect Behavioural Assays

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URL: <https://www.jove.com/video/58385>

DOI: [doi:10.3791/58385](https://doi.org/10.3791/58385)

Materials

Name	Company	Catalog Number	Comments
Flight arena	any	NA	Construct to fit the filter housing
Filter housing x 2	Camfill Farr		Contains the dust and charcoal filters
Fan x 2	Fischbach	Model D640/E35	Silent fan with continous dimmer switch
Perforated grids	any	NA	Two different open areas are needed, e.g. 54 and 51%
Flowmeter	Swema air	Swema air 300	Identifying the wind speed
Ultrasonic sprayer	SonoTek		Sprayer nozzle with conical tip and inserted microbore
Broadband ultrasonic generator	SonoTek		Function generator
Syringe pump	CMA microdialysis	CMA 102	Liquid delivery
FEP tubing	CMA microdialysis		0.12 mm inner diameter
Tubing adaptors	CMA microdialysis		Connectors for zero internal volume
Gastight syringe	any	NA	1000 µL syringe for headspace collections and synthetic blends
Gastight syringe	any	NA	1000 µL syringe for cleaning sprayer
Torch	any	NA	Small light source for checking sprayer release
Timer	any	NA	Timer with alarm function
Holder for insect release	any	NA	Metal construction
Lighting	any	NA	LED is preferable due to low heat production
Moisturiser	any	NA	Size depends on volume of wind tunnel room
Temperature control	any	NA	Temperture range depends on species
Glass tubes	any	NA	Tubes (2.8 cm diameter, 13 cm long) for insects
Snap cap	any	NA	Snap cap that fits the glass tube
Gauze	any	NA	Fabric to close the glass tube
Rubber band	any	NA	To hold gauze in place
Glass cylinder	any	NA	Cylinder for odour containment and landing platform (10 cm diameter, 12.5 cm long)

Glass jars	any	NA	Glass jars for dynamic headspace collection
Connectors and tubes	any	NA	Tubes and connectors depends on type of glass jars
Air supply	any	NA	From laboratory air or bottles
Charcoal filters	any	NA	For cleaning the outside air supply
Vial	any	NA	Small vial with water to keep plant material fresh
Oven	any	NA	Heat metal and glassware to 300 degrees to decontaminate