

Materials List for:

Visualizing Efficacy of Pesticides Against Disease Vector Mosquitoes in the Field

Seth C. Britch¹, Kenneth J. Linthicum¹, Robert L. Aldridge¹, Frances V. Golden¹, Todd W. Walker²

¹Mosquito & Fly Research Unit, United States Department of Agriculture, Agricultural Research Service Center for Medical, Agricultural, & Veterinary Entomology

²East Baton Rouge Mosquito Abatement and Rodent Control

Correspondence to: Seth C. Britch at Seth.Britch@ars.usda.gov

URL: <https://www.jove.com/video/58440>

DOI: [doi:10.3791/58440](https://doi.org/10.3791/58440)

Materials

Name	Company	Catalog Number	Comments
Bioassay racks:			
plastic tube lid	Visipak	192224	
1.25-in PVC coupler SCH-40	Lowes	PVC 00100 0800	
1/4-in OD brass rod	K&S Engineering	1165	
Name	Company	Catalog Number	Comments
Bioassays:			
FDA silicone o-rings S-500-70	Alltek seal and packing	PA-2127-12	
fine screening	Walmart	40310-0000-063 white	T-310
cotton balls	Fisher Brand		Large cotton balls (non-sterile)
plastic tubes	Visipak	775674	
regulator	Norgren	R83-200-RNEA	
regulator gauge	Wika Instrument Corp	4315031	
CO2 canister			20 lb capacity
CO2 chamber	Mainstays		Modified tupperware container (16 cup)
1/4-in tygon tubing			
maglite aspirator and tubes	Bioquip	2809D	D-cell maglite aspirator
modified PVC pipe for o-rings	Lowes	PVC 07112 0600	SCH-40 pipe modified by cutting tool on inner surface to accommodate bioassay tube
Pupal separator	John W. Hock Co.	5412	
Name	Company	Catalog Number	Comments
Field sentinel cages:			
1/2 pt cardboard can body	Neptune	295	
1/2 pt cardboard cup lid	Neptune	295A	
coarse screening	Walmart	41721-0540-063 white	T-1721
Velcro cable ties 8-in x 1/2-in	Velcro Brand	VEL91140	
rubber band	National Institutes for the Blind	7510-01-058-9974	
cotton balls	Fisher Brand		Large cotton balls (non-sterile)
PVC spacers	Lowes	PVC 04010 0600	Modified by cutting into 18-in length pieces and cutting half off of the end (lengthwise)
Tray totes	Blue Ridge Thermalforming	400-3N-WHT-ABS	
Name	Company	Catalog Number	Comments

Field bioassay set-up equipment:			
60-in tread-in post	Jeffers.com	T8T4	
1 ft ³ cardboard boxes	USP	S-18344	
Deli cups	WNA Inc.	APCOMBO16	
18-in x 18-in linolium tiles	Lowes	LSS4307BPS	
Name	Company	Catalog Number	Comments
Sentinel cage transport:			
48 qt Island Breeze cooler	Igloo		
16-in x 19-in. terry towels	Ability One	7920-01-454-1150	
garbage bags			13 gal (kitchen size)