

Determining Temperature Preference of Mosquitoes and Other Ectotherms

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Materials

Name	Company	Catalog Number	Comments
Acrylic tube (Bridge)	Perspex	900 mm OD	Size (Length x diameter): 8 cm x 9 cm; 1 cm bigger than the size of the hole in front of the incubator. Size of the hole on top: 1.6 cm
Carbon dioxide (CO ₂) inflator	Peaken	B08HM2BDDB	Any CO ₂ pen will work
Digital Incubator (x2)	VWR	VWR INCU-Line 1L 10 (390-0384)	Size of hole in front of incubator: 8 cm diameter. Holes need to be position in the center and have the same exact position on both incubators to allow alignment of bridge. This should be pre-drilled using a standard 8 cm 'holesaw' drill bit. Incubator must be just large enough to contain one mosquito cage.
Mechanical aspirator (for mosquitoes)	Watkins and Doncaster	E710	Ideal barrel size 50 x 28 mm and tube diameter 9mm.
Mosquito cage (x3; two for the experiments, one for storing insects)	BugDorm	BD4S1515	Size: 17.5 cm x 17.5 cm x 17.5 cm with 12 cm sleeve opening. Mesh material : Knitted nylon
Plastic funnel			Diameter of opening = 5 cm Length of funnel = 5 cm Diameter of aperture = 1 cm
Plastic Pocket Pooter (for Drosophila or small insects)	Watkins and Doncaster	E714	Manual/mouth aspirated
Rubber band or Reusable cable tie			Either, depending on preference.
Temperature probe	Eidyer	B07J4T1VQZ	Any thermometer with at least 100 cm narrow wire probe