



STANDARD OPERATING PROCEDURE

Data Quality Task Force

Issued: XX/YY/ZZ

First Edition: This edition replaces all previous editions of the Standard Operating Procedure (SOP)

TITLE: Transportation of mosquitoes

INTRODUCTION:

Proper transportation of mosquitoes to and from the field is one of the main factors determining the end results of the experimental hut trials. It is therefore important to make sure that necessary steps are followed to minimize the unrelated pre and post exposure mortality.

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Equipment

- A large cool box (large enough to accommodate the wooden racks)
- Wooden racks
- Damp towels
- Distilled water
- Thermometer
- Hygrometer

1. Transportation of mosquitoes from the laboratory to the field

- 1.1 Prepare the cool box by lining the bottom with a damp towel and then placing the wooden rack on top
- 1.2 Introduce the paper cups containing live mosquitoes into the wooden racks in upright position and cover the cool box with a lid.
- 1.3 Provide mosquitoes with 10% glucose as described in SOP/00U/01, 'Preparation of sugar-soaked cotton wool for feeding adult mosquitoes in holding cages or during transportation between the laboratory and field'.
- 1.4 Avoid shaking and keep the cool box upright during transportation to the field.
- 1.5 Record temperature/humidity in the cool box during the transport using a data logger.

2. Transportation of mosquitoes from the field to the laboratory

2.1 Live mosquitoes

- 2.1.1 Prepare the cool box as indicated in 1.1 above.
- 2.1.2 Place well labelled live mosquito specimen (species, blood feeding status, sex etc) in paper cups, covered with netting materials and place them in cool box.
- 2.1.3 Provide the mosquitoes with 10% glucose as described in 1.3 above.
- 2.1.4 Avoid shaking the specimen during transportation to the laboratory.



2.2 Dead mosquitoes

2.2.1 Place well labelled dead mosquito specimen (species, blood feeding status, sex etc) in paper cups, covered with netting materials and place them in cool box.

2.2.2 Avoid shaking the specimen during transportation to the laboratory.

Note:

To avoid unwanted mortality of mosquitoes, mosquitoes should be transported to the laboratory within two hours post collection.