



STANDARD OPERATING PROCEDURE

Data Quality Task Force

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

TITLE: Scoring of mosquitoes following huts collections

INTRODUCTION:

The purpose of this SOP is to provide instructions on the correct scoring of mosquitoes collected in experimental huts during Phase II small-scale field studies of indoor residual spray (IRS) treatment applications.

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Glossary

For the purposes of this SOP, dead mosquitoes are classified as:

- Mosquitoes that show no movement
- Mosquitoes that show no movements
- Mosquitoes that cannot stand

Equipment & Materials

- Dissecting microscope
- Aspirator

1. Method

- 1.1 Identify mosquitoes and separate them by species using appropriate identification keys
- 1.2 For each species, note the blood fed and unfed status of each mosquito
- 1.3 For each species, note the immediate mortality
- 1.4 Hold the live mosquitoes for 24 hours post arrival in the laboratory for fast acting insecticides, 48 hours or longer for slower acting insecticide products
- 1.5 Hold not more than 10 mosquitoes in paper cups or cages
- 1.6 Provide the mosquitoes with 10% sugar solution during the holding period
- 1.7 Maintain the temperature in the room/cabinet in which the mosquitoes are held at 27 ± 2 °C and the relative humidity above 80%.
- 1.8 Count delayed and final mortality
- 1.9 If required, conserve the mosquitoes of interest in Eppendorf tubes containing silica-gel (one mosquito per tube).