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Toxicity assay for mosquito larvicidal activity-Part2

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avinash.kale[1]

[1]Domnic Colvin

UM-DAE Centre for Exce...

avinash.kale

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The phenotypic characters of C. quinquefasciatus can be easily distinguished from the other species of mosquitoes. After collecting the dead larvae, they were identified phenotypically, with the help of an expert entomologist in the Zoonosis Department of the Haffkine Institute for Training, Research and Testing, using the keys of Barraud#.
Pocock, R. Fauna of British India. Mollusca. London 2, (1908).

The bioassay experiments were carried out at the Department of Zoonosis, Haffkine Institute for Training, Research and Testing, Mumbai, India. The Department is a Central Insecticide Board, Ghaziabad, New Delhi, India approved centre and is actively engaged in testing for Bio efficacy, persistency, repellence, testing against crawling & flying insects, mosquito repellence test on human skin, water resistance study and study of products for testing of Anti- Ant and Anti Wasp activity as per WHO guidelines.
The mosquito larvae strains used here for various testing are the F1 generation of Culex quinquefasciatus in their third instar stage of development. These strains of mosquitoes have been used for reporting various mosquito repellents but their resistance or susceptibility to Bt is undetermined.