

Abstract

This project has set up the West Nile virus detection system in mosquitoes. The sensitivity of this system was 0.00142 PFU per ml. Nine hundred and thirty-three mosquitoes were collected from Taipei zoo, Guandu Nature Park, Cigu black-faced spoonbill reserve, airport, and mountain. The test results (127 pools) were negative. However, the common species collected included *Culex quinquefasciatus*, *Cx. tritaeniorhynchus* and *Aedes albopictus*, which are efficient vectors of West Nile virus in U.S.A. Therefore, continuing monitoring with more mosquitoes collected and tested were highly recommended.

Keywords: West Nile virus, Testing, *Culex quinquefasciatus*, *Culex tritaeniorhynchus*, *Aedes albopictus*