

Comparative Analysis of Petroleum Ether and Aqueous Extraction Solvents on Different Stages of Anopheles Gambiae Using Neem Leaf and Neem Stem

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Abstract : Comparative analysis of petroleum ether and aqueous extraction solvents on different stages of *Anopheles gambiae* was carried out using neem leaf and neem stem. Soxhlet apparatus was used to extract each pulverized plant part. Each plant part extract from both solvents were separately used to test their effects on the developmental stages of *Anopheles gambiae*. The result showed that the mean mortality of extracts from petroleum ether extraction solvent was higher than that of aqueous extract. It was also observed that mean mortality decreases with increase in developmental stage. Furthermore, extracts from neem leaf was found to be more susceptible than extracts from neem stem using same extraction solvent.

Keywords : petroleum ether, aqueous, developmental, stages, extraction, *Anopheles gambiae*

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