

ABSTRACT

Larvicidal active pure chemical compound was isolated from a *Trametes* species using conventional chemistry techniques like solvent-solvent extraction and liquid-solid adsorption techniques. Larvicidal assays carried out on the purified compound, LC50 and LC90 values were calculated and found to be 23.5 and 67.4 ppm, respectively. The chemical structures of the purified compound was elucidated using standard spectroscopic techniques: 1D (¹H; ¹³C) and 2D (HSQC, COSY, NOESY, HMBC; DEPT) NMR experiments, assignments. The results indicate the potential of novel compounds with mosquito larvicidal activity from the *Trametes* species commonly found in the Kenyan forest ecosystems.

Key words: Mosquito larvicidal, *Aedes aegypti*, trihydroxylindene derivative, *Trametes* species.