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, LC_{50} and LC_{90} 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 (^{1}H; ^{13}C) 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.