

Determination of allylic permethrin and acetylene C permethrin in electric-mosquito coils by gas chromatography

전명래, 류준옥, 염홍원, 노경호*
인하대학교
(rowkho@inha.ac.kr*)

Es-biological allylic permethrin, D-acetylene C permethrin in electric-mosquito coils were extracted with petroleum ether (60 °C ~ 90 °C) and then analyzed by gas chromatography. Using myristic acid isopropyl ester as the internal standard, the electric-mosquito Coils samples were pretreatment with a centrifuger at 2000 r/min for 2.0 min. The supernatant liquid was collected into a glass bottle and 2.0 L of supernatant liquid was injected into the gas chromatography. The results showed that the means recoveries of Allylic permethrin and acetylene c permethrin were 99.0 %. The relative standard deviation (n=10) of allylic permethrin and acetylene C permethrin were 0.44 % and 0.26 %, respectively. This method is a viable alternative tool to the existing GC methods for analyzing the content of allylic permethrin and D-acetylene C permethrin in electric-mosquito coils samples.