





<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > <u>Abstract</u>

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Female sex pheromone of a Japanese population of allium leafminer, *Acrolepiopsis sapporensis* (Lepidoptera: Acrolepiidae)

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Abstract:

Three monoenyl compounds were detected in GC/MS analysis of a hexane extract of pheromone glands from virgin female *Acrolepiopsis sapporensis*. They were identified as (Z)-11-hexadecenyl acetate (Z11-16:Ac), (Z)-11-hexadecenal (Z11-16:Ald) and (Z)-11-hexadecenol (Z11-16:OH), respectively, by chemical derivatization and synthesis of both geometric isomers. The ratio of three components in the sex pheromone gland of female moths was 100: 10: 23 with GC/MS analyses. In field tests, blends of the three components were evidenced to attract male moths in a Welsh onion field. Synthetic (Z)-11-hexadecenal was the principal component to catch more males.

Keywords:

Acrolepiopsis sapporensis, female sex pheromone, field attraction, (Z)-11-hexadecenyl compound, Lepidoptera

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