Biological Activity of Cleome spp. Extracts Against the Rice Weevil, Sitophilus oryzae L.

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Cleome spp.; plant extracts; Sitophilus oryzae L.

Abstract

The methanolic extracts of Cleome gynandra (L.) Briq., Cleome chelidonii L., and Cleome viscosa L. were tested against the rice weevil, Sitophilus oryzae L. under laboratory conditions. Impregnated-paper test with the extracts (10μl/cm²) were conducted on early emerged adults. The extracts of C. viscosa and C. gynandra showed higher toxic than C. chelidonii extract. The LC₅₀ values were 198, 988 and 1111 ppm, respectively. Moreover, C. viscosa extract was highly inhibited the oviposition of these insects. The present result is an indicative of the potential of using Cleome extracts for S. oryzae management.