

研究论文

四种植物淬取物对尼日利亚仓贮甲虫的生物活性

Chris O. ADEDIRE, Rotimi O. AKINKUROLERE

Food Storage Technology Programme, Department of Biology, Federal University of Technology, P. M. B. 704, Akure, Nigeria

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摘要 The efficacy of ethanol extracts from four plants, *Dennettia tripetala* Baker, *Eugenia aromatica* Baillon, *Piper guineense* Thonn et Schum and *Anchomanes difformis* P. Beauv. As bioinsecticides for control of adult *Sitophilus zeamais* Motschulsky, *Tribolium castaneum* Herbst, *Callosobruchus maculatus* Fabricius, *Oryzaephilus mercator* Fauvel and *Lasioderma serricornis* Fabricius were determined at two concentrations (0.5% and 2.0%) in the laboratory. All extracts were toxic to beetles with *E. aromatica* being the most potent of four plant materials tested and had the least LT50 value. This was followed by *A. difformis* extract. At 2.0% v/w extract concentration, percentage grain damage by insects in treated grains stored for 90 days was nil. Grains protected with *A. difformis* had the least percentage seed germination of 62.50% while those protected with *P. guineense* had the highest percentage germination (74.58%) at 2.0% extract concentration. The mean percentage germination in the control was 72.72%. Treatment of grains with plant extracts had no significant ($P > 0.05$) effect on its water absorption capacity.

关键词 [甲虫类害虫](#) [植物淬取物](#) [LT50](#) [种子发芽能力](#)

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通讯作者:

作者个人主页: Chris O. ADEDIRE; Rotimi O. AKINKUROLERE

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