Fumigation Toxicity Of Essential Oils Against Rhyzopertha

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Fumigation Toxicity Of Essential Oils

The fumigant toxicity of eight essential oil components, 1-8-cineole, carvacrol, eugenol, (−)-menthone, (−)-linalool, S-(−)-limonene, (−)- β -pinene, and (+)- α -pinene, was tested against the cowpea weevil, Callosobruchus maculatus (Fabricius) (Coleoptera: Chrysomelidae), at 0.25–60 μ L/L air doses. 1-8-Cineole, carvacrol, and eugenol caused complete adult

mortality at 10 µ L/L air 24 h after treatment. 1-8-Cineole and carvacrol were the most toxic with LD 50 values of 0.24 ...

Fumigation Toxicity of Essential Oil Monoterpenes to ...

The Rhyzopertha dominica F. (Coleoptera: Bostrichidae) is a primary pest of stored grains in many regions of the world. In this work we evaluated the fumigant activity of essential oils of Ocimum basilicum L., Citrus aurantium L., Mentha spicata L. and Croton pulegiodorus Baill on adult R. dominica in stored maize. Tests were conducted to determine lethals concentrations (CL50 and CL100) and...

Fumigation toxicity of essential oils against Rhyzopertha ...

The fumigant toxicity of 28 essential oils extracted from various spice and herb plants and some of their major constituents were assessed for adult coleopterans Rhyzopertha dominica,

Oryzaephilus surinamensis, Tribolium castaneum, and Sitophilus oryzae.

Fumigant toxicity of essential oils against four major ...

Fumigant toxicity of essential oils. The fumigant toxicities of essential oils against S. oryzae were determined as described by Huang et al. (Huang et al., 2011) with slight modification. Briefly, 30 random adults of S. oryzae were placed into a 500 mL triangular flask.

Comparison of antibacterial effects and fumigant toxicity ...

Acute fumigation toxicity bioassays The toxicity of the essential oils (CRT013, CRT023, CRT031, CRT042 and CRT052) and their major compounds (1,8-cineole, α-pinene, camphor, (E)-pinocarveol and p -cymene) was assessed based on the lethal concentrations (LC) and lethal times (LT) against A.

balzani.

Toxicity and behavioral alterations caused by essential ...
Essential oils could be a new, appropriate, and safe alternative for greenhouse culture protection. As greenhouses are enclosed areas, fumigation application of EOs is possible. This paper presents acute toxicity results for 15 commercial EOs applied by fumigation, as well as the effect of sublethal concentrations on fertility of F. occidentalis females.

Fumigant effect of essential oils on mortality and ...
Tests were conducted to determine lethals concentrations (CL 50 and CL 100) and mortality (fumigation).The fumigation test was done in containers made of glass containing 10 individuals of R. dominica, where essential oils were applied at different concentrations: O. basilicum and M. spicata (5, 10, 15, 20, 30 and 40µL/L of air), C. aurantium (10, 20, 30, 40, 50 and 60µL/L of

air) and C. pulegiodorus (0, 20, 30, 50, 70 and 90µL/L of air). After 48 hours of exposure to the oils the ...

FUMIGATION TOXICITY OF ESSENTIAL OILS AGAINST Rhyzopertha ...

Essential oil concentrations range from 1-20% and volumes of 5-15 mL are likely to cause some degree of toxicity. Essential oils mimic other fat soluble drugs, are well absorbed through mucous membranes and the skin and are excreted unchanged or as hepatic metabolites via lungs, urine, faeces and skin.

Clinical Practice Guidelines : Essential Oil Poisoning

Some common symptoms of chronic essential oils toxicity are nausea, headaches, lethargy and minor skin irritations. Toxicity depends on the dose and major risk is posed by taking these essential oils internally. If they are being administered orally, care must be taken to give the correct dose especially where

babes and children are concerned.

Toxic Effects of Essential Oils | The Research Pedia
Different dilutions of both essential oils (0.10–0.25%, v/v) caused acute contact toxicity, although the sage extract showed greater acaricidal activity than rosemary oil.

(PDF) Acute toxicty of several esential oils on Daphnia ...
Moreover the highest essential oils toxicity at the Median lethal concentration (LC50) values for exposure periods (3, 5 and 7 days) to fumigation were (126, 53, and 47 mg/L air) for adult stage and were (79, 62, and 41 mg/L air) for larval stage, respectively in the case of Garlic oil treatment.

Fumigant toxicity of some essential oils against Red Flour ...
The essential oil of O. basilicum exhibited strong fumigant

toxicity against R. dominica adults, with a LC50value of 17.67 µL/L air and LC100 value of 27.15 µL/ L air. The C. aurantium essential oil required higher concentrations than O. basilicum, M. spicata and C. pulegiodorus to kill insects.

FUMIGATION TOXICITY OF ESSENTIAL OILS AGAINST Rhyzopertha ...

Three essential oils (Curcuma aeruginosa, Schizonepeta tenuifolia andValeriana officinalis) did not show fumigant toxicity at a concentration of 50.00 µg/l. Chemical composition of garlic essential oil was determined using GC-MS.

Evaluation of fumigant toxicity of essential oils of ...

The essential oil constituents, including terpinolene, α-terpinene, and terpinen-4-ol, demonstrated strong fumigant toxicity against adult males and females, and eugenol, isoeugenol, methyl eugenol, and terpinen-4-ol showed strong

contact toxicity against adult males of B. germanica.

Fumigant, Contact, and Repellent Activities of Essential ...

Suthisut D, Fields PG, Chandrapatya A (2011) Fumigant toxicity of essential oils from three Thai plants (Zingiberaceae) and their major compounds against Sitophilus zeamais, Tribolium castaneum and two parasitoids. J Stored Prod Res 47:222–230 CrossRef Google Scholar

Contact and fumigant toxicity of some essential oil ...

The mites were susceptible to the oils and chemical constituents using the fumigation method. The O. duckei oil was respectively 2.5-fold and 1.5-fold more toxic than the O. glomerata oil using the fumigation and residual contact methods. Among the selected constituents, β-caryophyllene was the most toxic, independently of the method employed.

Comparative toxicity of essential oil and blends of ...

This study aimed to define insecticidal activity and neurophysiological impacts of plant essential oil constituents. The topical and fumigant toxicity of 15 compounds was evaluated against adult male bed bugs. Neurological effects of the 6 most toxicologically active compounds were also determined.

Toxicity and neurophysiological impacts of plant essential ...

The durability of fumigation toxicity of the nanoliposome M. pulegium essential oil had a significant effect on mortality of T. castaneum adults in comparison with pure essential oil of this plant. The result showed that nanoliposome encapsulation of M. pulegium essential oil significantly increased fumigation toxicity against T. castaneum.