

عنوان مقاله:

Sensitivity of the Nematophagous Fungus *Arthrobotrys oligospora* to Fungicides, Insecticides and Crop Supplements Used in the Commercial Cultivation of *Agaricus bisporus*

محل انتشار:

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تعداد صفحات اصل مقاله: 7

نویسندگان:

E. Mohammadi Goltapeh - *Department of Plant Pathology, College of Agriculture, Tarbiat Modares University, Tehran, Islamic Republic of Iran*

M. Shams-bakhsh - *Department of Plant Pathology, College of Agriculture, Tarbiat Modares University, Tehran, Islamic Republic of Iran*

B. S. Pakdaman - *Department of Microorganisms, Bio-resources and Biosafety, Agricultural Biotechnology Research Institute of Iran, Karaj, Islamic Republic of Iran*

خلاصه مقاله:

The effect of various pesticides (diflubenzuro, malathion, mancozeb and carbendazim), disinfectants (calcium hypochlorite and formaldehyde) and oil cakes (sunflower and soy-bean oil cakes) commonly used as supplements in mushroom cultivation on the growth of the nematophagous fungus, *Arthrobotrys oligospora*, was studied under in vitro conditions. Carbenazim caused 99% inhibition of radial mycelial growth in Petri dishes at all concentrations tested (10-40 µg a. i. ml⁻¹) in comparison to non treated dishes. Mancozeb caused 43% and 23% inhibition at 250 and 500 µg a. i. ml⁻¹ respectively and 99% inhibition at concentration of 1000 µg a. i. ml⁻¹ and above. Diflubenzuro and malathion at 10-40 µg a. i. ml⁻¹ caused 30-41% and 24-54% inhibition, respectively. Formalin (0.5-2.0% v/v) inhibited growth of *A. oligospora* completely. However, calcium hypochlorite, sunflower and soybean oil cake at concentrations of up to 2.0% w/v caused less than 3.5% inhibition

کلمات کلیدی:

Agaricus bisporus, *Arthrobotrys oligospora*, Biocontrol, Disinfectant and Oil cakes

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