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Evaluation of some isolates of Entomopathogenic fungi on some insect pests infesting potato Crop in Egypt

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Abstract: The present studies were evaluation of some entomopathogenic fungi, *Beauveria* bassiana Metarhizium anisopliae and Verticilliun lecanii on Agrotis ipsilon, Spodoptera littoralis and Myzus Persicae. Each insect species was treated with entomopathogenic fungi, Beauveria bassiana Metarhizium anisopliae and Verticilliun lecanii at the concentrations of 2 x 10³, 2 x 10⁴ and 2 x 10⁵ spores / ml. *Beauveria bassiana* was more effective against *Agrotis* ipsilon and Spodoptera littoralis and less effective against Myzus Persicae. Verticilliun lecanii was more effective against Myzus Persicae and less effective against Agrotis ipsilon and Spodoptera littoralis. Metarhizium anisopliae was less effective against Agrotis ipsilon, Spodoptera littoralis and Myzus Persicae. Three concentrations of B. bassiana were tested against Agrotis ipsilon, Spodoptera littoralis and Myzus Persicae. LC₅₀ were 2.3 x 10 ⁴ spores / ml. 2.4×10^4 spores / ml. and 2.7×10^4 spores / ml. respectively. The same concentrations of M. anisopliae were tested against Agrotis ipsilon, Spodoptera littoralis and Myzus Persicae. LC50 were 2.5 x 10 ⁴spores / ml. 1.5 x 10 ⁴spores / ml. and 2.1 x 10 ⁴spores / ml. respectively. The same concentrations of Verticilliun lecanii were tested against Agrotis ipsilon, Spodoptera littoralis and Myzus Persicae. LC50 were 3.4 x 10 ⁴spores / ml. 2.7 x 10 ⁴spores / ml. and 1.5 x 10 ⁴spores / ml. respectively.

Keywords: Evaluation, entomopathogenic fungi, *Agrotis ipsilon*, *Spodoptera littoralis* and *Myzus Persicae*, potato Crop.

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