Accepted Manuscript

Bio-pesticidal effects of Trichoderma viride formulated titanium dioxide nanoparticle and their physiological and biochemical changes on Helicoverpa armigera (Hub.)

Chinnaperumal Kamaraj, Govindasamy Balasubramani, Paramasivam Deepak, Dilipkumar Aiswarya, Dhayalan Arul, Vadivel Amutha, Sengodan Karthi, Pachiappan Perumal



PII: S0048-3575(18)30071-3

DOI: doi:10.1016/j.pestbp.2018.05.005

Reference: YPEST 4222

To appear in: Pesticide Biochemistry and Physiology

Received date: 9 February 2018
Revised date: 30 April 2018
Accepted date: 4 May 2018

Please cite this article as: Chinnaperumal Kamaraj, Govindasamy Balasubramani, Paramasivam Deepak, Dilipkumar Aiswarya, Dhayalan Arul, Vadivel Amutha, Sengodan Karthi, Pachiappan Perumal, Bio-pesticidal effects of Trichoderma viride formulated titanium dioxide nanoparticle and their physiological and biochemical changes on Helicoverpa armigera (Hub.). The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Ypest(2017), doi:10.1016/j.pestbp.2018.05.005

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Bio-pesticidal effects of *Trichoderma viride* formulated titanium dioxide nanoparticle and their physiological and biochemical changes on *Helicoverpa armigera* (Hub.)

Chinnaperumal Kamaraj¹, Govindasamy Balasubramani¹, Paramasivam Deepak¹, Dilipkumar Aiswarya¹, Dhayalan Arul¹, Vadivel Amutha¹, Sengodan Karthi², Pachiappan Perumal^{1,*}

¹Department of Biotechnology, School of Biosciences, Periyar University, Periyar Palkalai Nagar, Salem - 636 011, Tamil Nadu, India

²Division of Biopesticides and Environmental Toxicology, Sri Paramakalyani Centre for Excellence in Environmental Sciences, Manonmaniam Sundaranar University, Alwarkurichi, 627 412, Tirunelveli, Tamil Nadu, India

*Corresponding author.

E-mail address: perumalarticles@gmail.com (P. Perumal)

Download English Version:

https://daneshyari.com/en/article/8348940

Download Persian Version:

https://daneshyari.com/article/8348940

Daneshyari.com