

Efficacy of certain species of *Trichoderma* against blight of *Vigna radiata*

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ARTICLE INFO

Received : 13.05.2015

Revised : 01.02.2016

Accepted : 15.02.2016

KEY WORDS :

Alternaria, Chitinase, Laminarinase,
Non-volatile, Volatile, *Trichoderma*
spp. *Vigna*

ABSTRACT

Alternaria sp attacks *Vigna radiata* causes many losses in yield. The antagonistic efficiency of *Trichoderma* spp evaluated in *in vitro* and in *in vivo* study against blight disease of *Vigna*. *Trichoderma* had shown significant antagonistic activity against *Alternaria*. *Trichoderma* species were capable of producing some volatile and non-volatiles substances which inhibit the growth of the pathogen. Effect of non-volatile substances seems to be more effective on mycelial growth of the pathogen. *T. viride* was most promising to check the radial growth of the pathogen (100%) wherein *T. harzianum* exhibited 97.78 per cent inhibition. Studies on the production of hydrolytic enzymes viz., β -1, 3 glucanase and chitinase by four *Trichoderma* spp were also studied. Field trials with the application of two *Trichoderma* species were made where *T. viride* caused reduction of infection of plants to 54.11 per cent.

How to view point the article : Bhattacharya, D., Chakraborty, M.R., Chatterjee, N.C. and Sengupta, C. (2016). Efficacy of certain species of *Trichoderma* against blight of *Vigna radiata*. *Internat. J. Plant Protec.*, **9**(1) : 8-14.

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