## SIGNIFICANCE OF PLANT BASED PHYTOEXTRACTS AGAINST SOFT ROT BACTERIA OF POTATO CAUSED BY *ERWINIA CAROTOVORA* SUBSP. *CAROTOVORA* UNDER *IN VITRO* TEST

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**Abstract:** Potato (*Solanum tuberosum* L) is one of the most nutritious sources of food in the world. It has been recognized as a wholesome food and the richest source of energy in most of the countries of the world where, it forms an important part of the human diet. Among the various diseases of potato, soft rot caused by *Erwinia carotovora* subsp. *carotovora* is the major potato tuber rot disease. Result revealed against *Erwinia carotovora*, that the extract of Garlic bulb @ 10 per cent produced maximum growth inhibition (60.60%) followed by Mahendi (54.54%) and Lantana leaf extracts (48.10%) respectively.

Keywords: Potato, bacteria, seed

## REFERENCES

Asalmol, M. N., Sen, B. and Awasthi, J. (1990). Role of temperature and pH in antagonism of *Aspergillus niger and Trichoderma viride* against *Fusarium solani*. Proc. Indian Phyto-Pathol. Soc., (Western Zone). On Biocontrol of Plant Pathogen. pp. 11-13. M.P.A.U., Pune.

Ark, P.A. and Thompson, J.P. (1959). Control of certain diseases of plant with antibiotics from garlic (*Allium sativum* L.). *Plant Dis. Reptr.*, **43** : 276-282. Alice, D. and Sivaprakasam, K. (1995). Antibiotics and garlic clove inhibitory agent of cell wall

degrading enzymes. *Hindustan Antibiotics Bulletin*, **37** (4): 44-47.

Schaad, N.W., Frederick, R.D., Shaw, J., Schneider, W.L., Hicksion, R., Petrtillo, M.D & Luster DG (2003). Advances in molecular baseddiagnostics in meeting crop biosecurity and phytosanitory issues. Ann. Rev. Phytopathol. 41: 305-324.

**Skinner, F.A.** In Modern methods of Plant Analysis (Peach, K. and Tracey, M.V., Eds).Vol.III. Springer-Verlag, Viertev Band, pp 626-725 (1955).