

Isolation and evaluation of rhizobacteria against *Ralstonia solanacearum* the incitant of bacterial wilt of tomato

■ C.S. Karibasappa* and Yogendra Singh

Department of Plant Pathology, College of Agriculture, G.B. Pant University of Agriculture and Technology, Pantnagar (Uttarakhand) India (Email: drysingh69@gmail.com)

ARTICLE INFO

Received : 28.07.2020
Revised : 11.09.2020
Accepted : 25.09.2020

KEY WORDS :

Ralstonia solanacearum, Rhizosphere, Biocontrol, Bacterial wilt

*Corresponding author:
Email : karibasappaesk@gmail.com

ABSTRACT

Bacterial wilt caused by *Ralstonia solanacearum* is the world's most economically important destructive disease of crop plants. In the current study, we aimed to evaluate the novel bacterial isolates from tomato rhizosphere for biocontrol of *Ralstonia solanacearum*. One eighty bacterial strains were isolated from the tomato rhizospheric soils collected from different regions of Uttarakhand state and evaluated for their biocontrol activity against *R. solanacearum* under *in vitro* conditions. Among them, six isolates were found to be highly effective in inhibiting the growth of *R. solanacearum*. The isolate GP2NA8 produced the highest inhibition zone followed by that of GP1NA2 and GP3NA6.

How to view point the article : Karibasappa, C.S. and Singh, Yogendra (2020). Isolation and evaluation of rhizobacteria against *Ralstonia solanacearum* the incitant of bacterial wilt of tomato. *Internat. J. Plant Protec.*, **13**(2) : 195-199, DOI : 10.15740/HAS/IJPP/13.2/195-199, Copyright@ 2020: Hind Agri-Horticultural Society.