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TECHNOLOGY-1

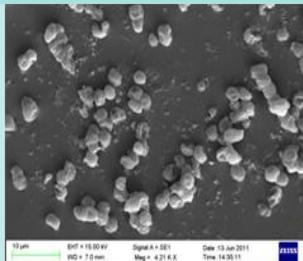
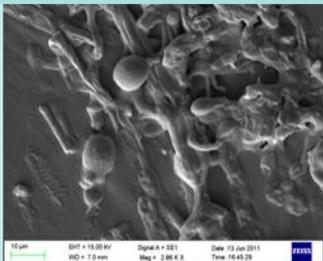
Bio-formulation of salinity tolerant isolate of *Trichoderma harzianum* for biological management of plant diseases

Technology Description

It is a bioformulation of a fungal antagonist *Trichoderma harzianum* which has salinity tolerance (up to 2M NaCl). It has good biocontrol potential against soil borne pathogens that has been verified by pot and field experiments with groundnut and sorghum. There is no salinity tolerant formulation of *Trichoderma* available in the market.

Benefit/utility

This bio-formulation of salinity tolerant isolates of *Trichoderma* with biocontrol potential is applicable to the crops grown in sodic soil, and it not only helps in disease control but also induces salinity tolerance to crop plants with increased seed germination and growth.



TECHNOLOGY-2

Bio-formulation of carbendazim tolerant isolate of *Trichoderma harzianum* for biological management of plant diseases

Technology Description

It is a bio-formulation of a fungal antagonist *Trichoderma harzianum*. The formulation has the carbendazim-tolerant isolate of *T. harzianum*. The carbendazim-tolerance is up to 500 ppm. It has good biocontrol potential against soil borne pathogens that has been verified by pot and field experiments with groundnut and sorghum

Benefits/ utility

This bio-formulation of carbendazim tolerant isolate of *T. harzianum* with biocontrol potential applicable to different crops. Combined effectiveness of carbendazim-tolerant *Trichoderma* along with carbendazim will be effective against different soil pathogens



TECHNOLOGY-3

Powder based formulation of *Pseudomonas fluorescens*, a DAPG producing abiotic stress tolerant isolate for rainfed and stressed agricultural soils

Technology Description

The bioformulation is developed with an efficient abiotic stress tolerant agent. The bacterium survive in high temperature (50 °C), salinity (1.5M NaCl) and drought conditions (up to -10.28 Mpa). The isolate produces plant growth promoting enzymes like phosphatase, proteases, chitinase, cellulase and ACC deaminase. The isolate effectively inhibited *Sclerotium rolfsii*, *Rhizoctonia solani* and *Fusarium oxysporum*.

Benefits /Utility

Pseudomonas fluorescens is a well known PGPR. *P. fluorescens* (NBAIL PFDWD) is proved to be a plant growth promoter additionally having abiotic stress tolerance. The formulations of this isolate can be used in disease management of pulses, rice, legumes and vegetables grown in rainfed and stressed soils.

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