

FUNCTIONAL MICROBEADS: ENGINEERING FUNGAL DELIVERY SYSTEMS TO REMEDIATE SALINIZED SOILS



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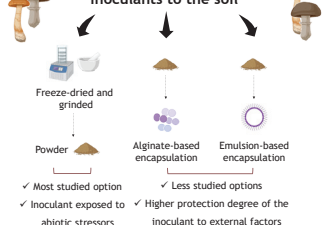
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Introduction

Strategies of application of rot fungi inoculants to the soil



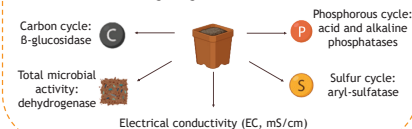
Objective

To evaluate the formulation of the rot fungus *Pleurotus sajor caju* using alginate-sphere encapsulation as a potential delivery system in salinized soils.

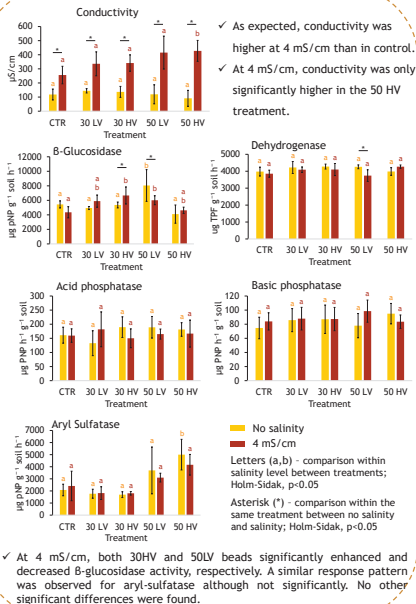
Methodology

- ✓ 2 bead volumes
 - 30 μL
 - 50 μL
- ✓ 2 alginate viscosities
 - Low viscosity (LV)
 - High Viscosity (HV)
- ✓ 2 salinities
 - Control
 - 4 mS/cm (threshold for salinity in soils)

14 days
Pots containing 100 grams of OECD standard soil



Results and Discussion



Conclusion

These findings suggest a potential but limited role of encapsulation, highlighting the need for further optimization and validation.

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