BIOCONTROL

# Natural stimulant for plant mycorrhizae

Mycorrhiza is a symbiotic association between soil bacteria (typically fungus) and plant roots. By improving the development of mycorrhizae, we can indirectly increase plant development and reduce the use of chemical inputs.

## DESCRIPTION*

- The strigolactones is a family of hormones naturally produced by plants
- At very small quantities, they stimulate the development of mycorrhizal fungi:
  - By activating the energetic metabolism of the fungus
  - By increasing the growth and the branching of the fungus hyphae that will associated with the plant's roots
- Thanks to strigolactones, plant roots can explore a wider area in the soil and significantly increase its vigor and its resistance to stress and reduce its need for artificial fertilizers

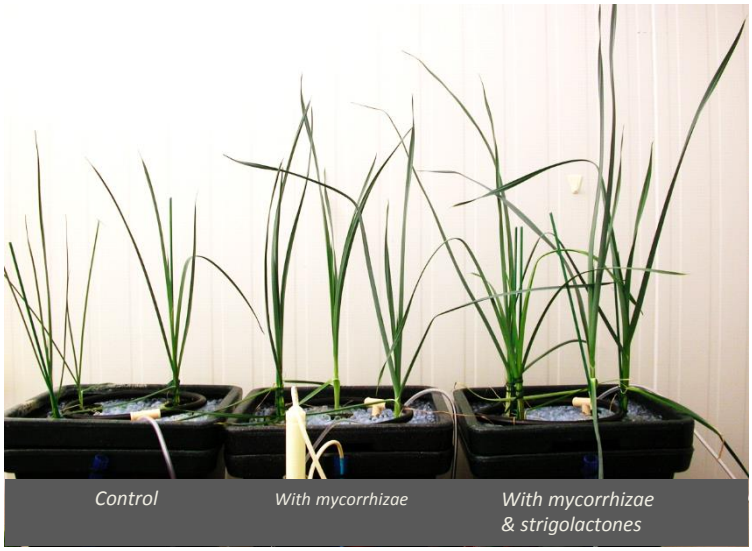


Photo: LRSV.

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Type | Bio stimulant – Hormone enhancing Mycorrhizae |
| Application | Alone or combined with inoculant |
| Use | Soil treatment, seed coating, inoculant production |
| Action | Increase mycorrhizae's metabolism, increase growth and branching of the fungus hyphae |

*Technology requiring license rights.



TOULOUSE TECH TRANSFER

## COMPETITIVE ADVANTAGES

- Improve Inoculant efficiency
- Efficient at small dosage
- Environmental friendly
- Help natural or induced mycorrhizae
- Improve plant nutrition (water and nitrogen)
- Improve the production of inoculant in-situ or in-vitro

## APPLICATIONS

- Agriculture
- Biocontrol
- Inoculant

## INTELLECTUAL PROPERTY

- Patent in force

## DEVELOPMENT STAGE

- Technology demonstrated in relevant environment

| 1 | 2 | 3 | 4 | 5 | **6** | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|

- Demonstration in-planta (controlled environment)
- Results in-vitro for mycorrhizal fungi
- Results on both model plant and cultivated crops

## LABORATORY

- Plant Cell Signaling and Symbiotic Mycorrhizae

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## CONTACT

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