

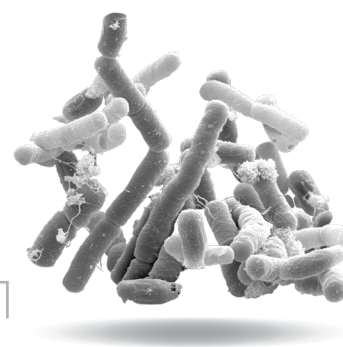


rise™ DualTech P

Providing natural crop stimulation for healthy growth, better yield and increased quality

RISE™ P DualTech is a microbial preparation containing a very high concentration of *Bacillus amyloliquefaciens* strain IT45 and specific yeast fractions LYCC, both isolated through LALLEMAND Research.

Bacillus amyloliquefaciens strain IT45



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■ BENEFITS

The bacteria Bacillus IT45 provides several significant benefits to crop plants:

- ✓ **Stimulating the start-up** of young plants.
- ✓ **Improving soil exploration** by roots, allowing better nutrient and water uptake.
- ✓ **Enhancing the productivity** of plants, allowing better growth, yield and quality.

MODES OF ACTION

The bacteria Bacillus IT45 contained in RISE™ P DualTech will rapidly populate the rhizosphere (root zone) after first feeding on the yeast derivatives and secondly on the root exudates produced by the crop.

In return, this microbial population will provide several beneficial outcomes to the plants:

- 1 Stimulate root growth:** production of phytohormones that will help to produce efficient roots (root hairs).

+20 % of root biomass*

*results obtained from a series of trials carried out over 10 years.

Increased exploration and better uptake of nutrients and water

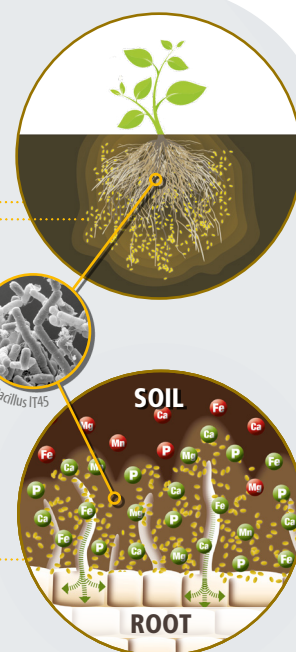
- 2 Solubilise locked nutrients:** secretion of phytases and organic acids that will turn phosphorus and trace elements in the rhizosphere into available forms for uptake by plants.

+28 % of phosphorus available in the rhizosphere*

*results obtained from a series of trials carried out over 10 years.

● Not able to be assimilated
● Able to be assimilated

- 3 Probiotic effect:** colonisation and occupation of the rhizosphere with beneficial microflora.



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Derogation N° EM016.P



SPECIFICATIONS

- **Composition:** >10⁹ CFU/g of *Bacillus amyloliquefaciens* strain IT45 and specific yeast fraction LYCC.
(CFU: Colony Forming Unit. Unit of measure for living microorganisms able to multiply)
- **Formulation:** wettable powder.
- **Storage:** can be stored for 36 months in a dry place at room temperature in its hermetically sealed original packaging.
- **Organic Agriculture:** usable in organic production.

COMPATIBILITY

Ask your distributor before mixing with plant protection products.



1 kg bag

APPLICATIONS

Dose rate and frequency:

	Dose rate	Crop stage	Applications
Top Fruit crops	1kg/ha	From budbreak then every month (2-3 applications)	Soil spray
Soft Fruit crops	1kg/ha	At planting then every 3-4 weeks	Soil spray
Potatoes	1 kg/ha	From planting to emergence	Soil spray
Bulb crops	1kg/ha	Emergence to first leaf	Soil spray
Stem crops	1kg/ha	At planting then if needed repeat at 3-4 week intervals	Soil spray or irrigation
Root crops	1kg/ha	At planting then if needed repeat at 3-4 week intervals	Soil spray or irrigation
Leafy salads and Brassicas	1kg/ha	At planting then if needed repeat at 3-4 week intervals	Soil spray or irrigation
Pharmaceutical and Industrial crops	1kg/ha	At planting then every 3-4 weeks	Soil spray or irrigation

Preparation:

- Fill the sprayer tank with water to half of the desired volume.
- Activate the return pump and agitation.
- Gradually incorporate the required amount of product into the water.
- Fill the water up to the total required volume.
- Agitate the mixture for at least 20 minutes before spraying.
- Keep agitating until the spray mixture has been sprayed.

- **Recommendations:** apply the product in humid conditions. Optimal temperature between 10°C and 30°C.

LALLEMAND PLANT CARE

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