



rise™ P

LALLEMAND

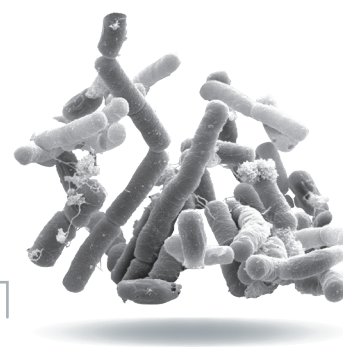
LALLEMAND PLANT CARE



The
**MICROORGANISM
SPECIALIST**

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

RISE™ P is a microbial preparation containing a very high concentration of *Bacillus amyloliquefaciens* strain IT45 isolated through Lallemand Research.



Bacillus amyloliquefaciens strain IT45

■ 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.

MODE OF ACTION

The bacteria *Bacillus* IT45 contained in RISE™ P multiply and quickly colonise the rhizosphere (zone near to the roots) by feeding on the root exudates.

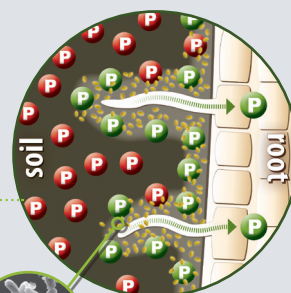
In return, this microbial population will provide several beneficial outcomes to the plants:

- 1 Solubilise Phosphorus:** 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.

- P** Phosphorus not able to be assimilated
- P** Phosphorus able to be assimilated

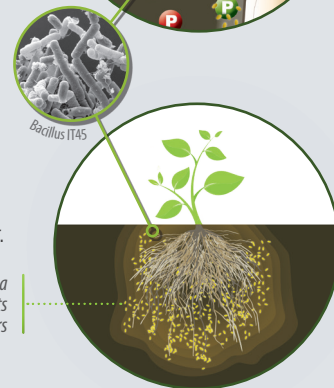


- 2 Stimulate growth of efficient roots and root hairs:** production of phytohormones that will help to produce roots and root hairs improving soil exploration and better uptake of nutrients and water.

+20 % of root biomass*

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

Increased area occupied by roots and root hairs



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SPECIFICATIONS

- **Composition:** 2×10^{10} CFU/g of *Bacillus amyloliquefaciens* strain IT45.
(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 subject to certification body approval.

COMPATIBILITY

Ask your distributor before mixing with plant protection products.



1 kg bag

APPLICATIONS

Dose rate and frequency:

	Dose rate	Crop stage	Applications
Oilseed Rape	150g/ha	From emergence to 4 leaves	1 per crop
Other Oilseeds	150g/ha	From emergence to 4 leaves	1 per crop
Silage Maize	150g/ha	From emergence to 4 leaves	1 per crop
Grain Maize	150g/ha	From emergence to 4 leaves	1 per crop
Sugar Beet	150g/ha	2 to 6 leaves	1 per crop
Fodder Beet	150g/ha	2 to 6 leaves	1 per crop
Canned Peas	150g/ha	2 to 6 leaves	1 per crop
Green Beans	150g/ha	From emergence to 4 leaves	1 per crop
Other outdoor legumes	150g/ha	From emergence to 4 leaves	1 per crop

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

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