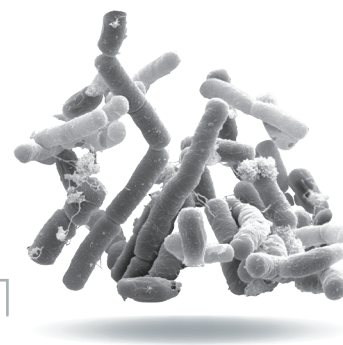




rise™ DualTech P

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

■ 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 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.

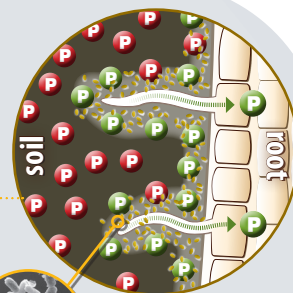
In return, this microbial population will provide several beneficial outcomes to the plants:

- 1 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



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



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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 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
Potatoes	1kg/ha	From planting to emergence	1 per crop
Vegetable Root Crops	1kg/ha	From drilling to emergence	1 per crop
Vegetable Brassicas	1kg/ha	From drilling to emergence or at transplanting	1 per crop
Alliums	1kg/ha	From drilling to emergence or at transplanting	1 per crop
Indoor Legumes	1kg/ha	From drilling to emergence	1 per crop
Other Field Vegetables	1kg/ha	From drilling to emergence or at transplanting	1 per crop


Preparation:


- 

Fill the sprayer tank with water to half of the desired volume.
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Activate the return pump and agitation.
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Gradually incorporate the required amount of product into the water.
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Fill the water up to the total required volume.
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Agitate the mixture for at least 20 minutes before spraying.
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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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LALLEMAND PLANT CARE