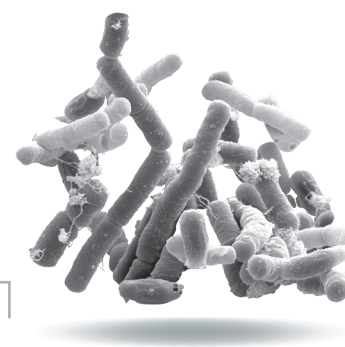




# CILUS<sup>®</sup> PLUS

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

Cilus<sup>®</sup> Plus 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 Cilus<sup>®</sup> Plus will rapidly populate the rhizosphere (root zone) by feeding on the root exudates produced by the crop.

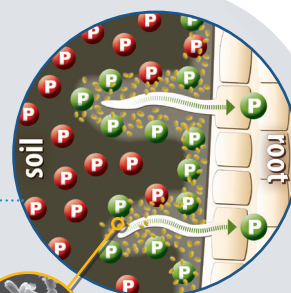
In return, this microbial population will provide several beneficial outcomes to the plants:

- 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

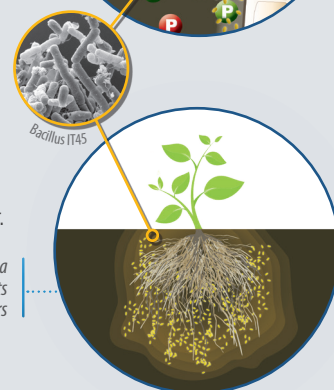


- 2 Stimulate growth of efficient roots and root hairs:** production of phytohormones that will help to produce roots and root hairs improving soil exploration and better uptake of nutrients and water.

**+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.



# CILUS<sup>®</sup> PLUS



## ■ SPECIFICATIONS

- **Composition:**  $2 \times 10^{10}$  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.



200 g bag

## ■ APPLICATIONS

### • Dose rate & frequency:

	Dose rate	Crop stage	Applications
Nursery propagation (edible and non edible plants)	40 g/1000 m <sup>2</sup>	Emergence	1 per crop
Salad Crops	200 g/ha	Emergence or at transplanting	1 to 2 per crop
Soft Fruit Crops	200 g/ha	Transplanting or through fertigation	1 to 2 per crop
Top Fruit Crops	200 g/ha	Transplanting or through fertigation	1 to 2 per crop
Ornamental Plants	200 g/ha	Emergence or at transplanting or through fertigation	1 to 2 per crop
Vines	200 g/ha	Transplanting or through fertigation	1 to 2 per crop

- **Preparation:** the powder should be dissolved in water and drenched onto seedling trays, sprayed onto soil, applied to growing media or applied through drip irrigation.
- **Recommendations:** apply the product in humid conditions. Optimal temperature is between 10 °C and 30 °C.

## LALLEMAND PLANT CARE

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