CILUS[®] PLUS



Increase the speed and evenness of growth in your plantations

Cilus® Plus is a microbial preparation containing a very high concentration of *Bacillus amyloliquefaciens* strain IT45 isolated through Lallemand Research.

Benefits

- Activating root growth: starter effect.
- Accelerating plant development.
- Increasing even growth of crops in field.
- Increasing the level of reserves in the crop.

Modes of action

The Bacillus IT45 bacteria contained in Cilus® Plus multiply and quickly colonise the rhizosphere (zone near the roots) by feeding on root exudates.

In return, this bacterial population brings several benefits to the plant:



+28 % of Phosphorus available in the rhizosphere*

Phosphorus unavailable
Phosphorus available

Stimulates growth of efficient roots (root hairs):

+20 % of root biomass *

Increase in the area for interception of nutrients

Probiotic effect:

Rhizosphere occupat

Rhizosphere occupation by beneficial microbes.

*Results obtained from a series of tests over 10 years

.. Characteristics



Bacillus amyloliquefaciens strain IT45

Active substance:

2.10¹⁰ CFU/g of

Bacillus amyloliquefaciens strain IT45

Formulation:

Wettable powder

Packaging:

200 g bag

Usable in organic farming





CILUS® PLUS

Tree Fruit and Vineyards

Specifically at planting



Crop	Dose	Period	Methods of application
Fruit trees	200 g/ha	1 application per month (August to October)	Localised in the rows by spraying onto the ground. Mixing with herbicides or in the
Vines	200 g/ha	1 application per month (August to October)	irrigation system is possible (drip irrigation or micro-jets)

Compatibility: for any mixing with chemical products, ask your distributor.

Conditions at application: – optimal temperature between 10 °C and 30 °C.

- apply preferably in humid conditions.
- do not aply on dry and in high temperature periods.

Results

■ Shoot and trunk development from increasing root biomass.

Evaluation of a starter programme on an orchard of young apple trees.

France, 2015 and 2016.

Applications

Stage	T1	T2	T 3	T4
	Planting	Stage BBCH 53-54	T2+1 month	T3+1 month
M1	MYC 12: 0.05 kg/tree	Bacillus IT45: 3 applications at 1 kg/ha 18-46: 3 applications at 60 g/tree		
M2	_			

Annual shoot length

Observation year 2015	Annual shoot length (cm)	Observation year 2016	Annual shoot length (cm)
M1	341*	M1	1330
M2	283	M2	1336

Circumference of the trunk

Observation year 2015	26/03/15 (cm)	27/10 /15 (cm)	Growth (cm)	Observation year 2016	23/11/16 (cm)
M1	5.6	7.6*	2.0*	M1	11.5*
M2	5.6	7.3	1.6	M2	11.2

*Significant difference at 5 %

Bacillus IT45 significantly increases trunk growth and annual shoot length.

■ Development and homogenous growth of shoots.

Evaluation of a starter programme on an orchard of young apple trees.
Finland, 2016.



Bacillus IT45 increases the development and the vigour of young trees.

LALLEMAND PLANT CARE

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