

rise™ P

Secure the establishment of your Oilseed Rape

LALLEMAND

LALLEMAND PLANT CARE



THE MICROORGANISM SPECIALIST

RISE™ P is a highly concentrated root inoculant containing the rhizospheric bacteria *Bacillus amyloliquefaciens* strain IT45.

Benefits

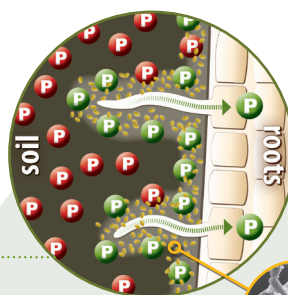
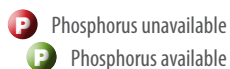
- **Promotes the development of root biomass prior to going into winter.**
- **Improves the crown diameter before winter:** better resistance against pest attack.
- **Increases the amount of nutrients stored in the crown and taproot:** better growth of vegetation coming out of the winter.

Modes of action

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

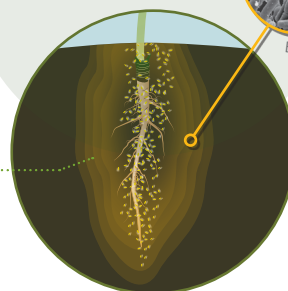
In return, this bacterial population brings several benefits to the plant:

- ✓ **Solubilises phosphorus:** +28% of phosphorus available in the rhizosphere*.



- ✓ **Stimulates growth of efficient roots (root hairs):** +20% of root biomass*.

Increase in the area for interception of nutrients



Bacillus amyloliquefaciens strain IT45

Active substance:

2.10¹⁰ CFU/g of *Bacillus amyloliquefaciens* strain IT45

Formulation:

Wettable powder

Packaging:

1 kg bag

Usable in organic farming



*Results obtained from a series of tests over 10 years

Application

Crop	Dose	Stage	Method of application
Oilseed Rape	150 g/ha	Emergence to 4 leaves	Soil spray

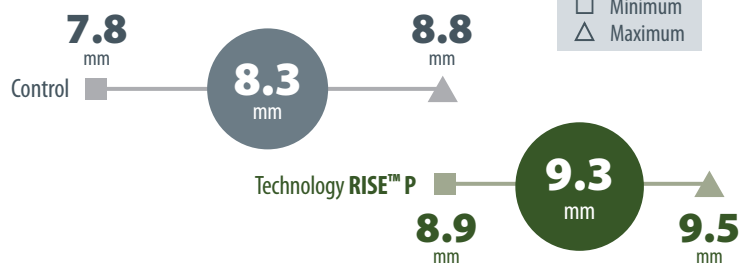
- Notes:**
- Apply the product in humid conditions. Optimum temperature between 10 °C and 30 °C.
 - Avoid applications on dry ground during periods of hot weather (> 35 °C).

Results

■ Increase in crown diameter.

Compilation of 15 autumn measurements made in France on 4800 plants in 2014. Région Centre

Analysis of crown diameters (mm)



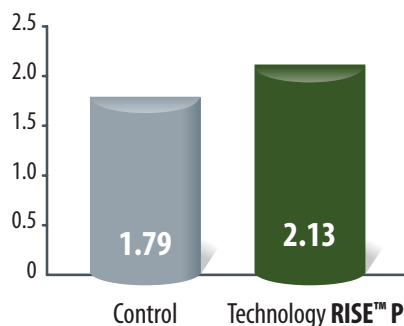
+1 mm of crown diameter

■ Development of root biomass.

Trial in Bourgogne Franche-Comté, 2015. Nièvre (58)

Variety	Alicante
Prior to previous	Soft wheat
Previous	Winter barley
Type of soil	Clay and limestone
Field work	No ploughing - Simplified Farming Techniques
Sowing	20/08/2015

Total weights (kg/m²)



+20% of root biomass

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