



TECHNICAL SHEET



ELICIRTM
ARCOLAN

VEGETABLES



MARKET GARDENING BIOSTIMULANT (Plant extract)

According to Regulation (EU) 2019/1009

Suitable for use in Organic Farming in accordance with Regulation (EU) N° 2021/1165



PROMOTES THE GROWTH OF VEGETABLES - An innovative and efficient biostimulation solution, 100% biosourced

- Promotes plant growth from the germination stage
- Increases yield
- Adjusts the metabolic activity of plants depending on environmental conditions
- Stimulates and strengthens the root system
- Improves plant recovery during transplanting





ELICIR
ARCOLAN[™] VEGETABLES

New
Patented
Technology

ELICIR offers an extremely effective breakthrough agronomic technology.

ELICIR has been involved in the vegetable sector for several years.

ARCOLAN[™] is a tool for the environmental transition of market gardening.

Treatments by foliar application, in accordance with agricultural practices.

ARCOLAN[™] can be used over the lifetime of the plants to improve its physiology and production.

ARCOLAN[™] has no impact on the final product.

ARCOLAN[™] can be used in a treatment program with other biostimulant, biocontrol and plant protection products..



CONDITIONS FOR USE :

CROP	Dose	▪ Maximum number of applications ▪ Interval
VEGETABLE	0.1 Kg/hL	▪ 1-6 applications ▪ 10 – 14 days

TANK MIXTURE :

Fill the tank about three quarter-full of required water volume. Start tank agitation, agitate the container and add the necessary quantity of product. Then, make up to final volume with water. Rinse manually the container with clean water 3 times and with agitation. Make sure to add water into tank. Maintain the agitation during spraying.

CLEANING OF THE TANK :

At the end of application, rinse the spray line, nozzle, tank and agitator with clear water. The cleaning of the spray system, the spreading or tank draining and effluent removal must be done in accordance with regulations.

STORAGE CONDITIONS :

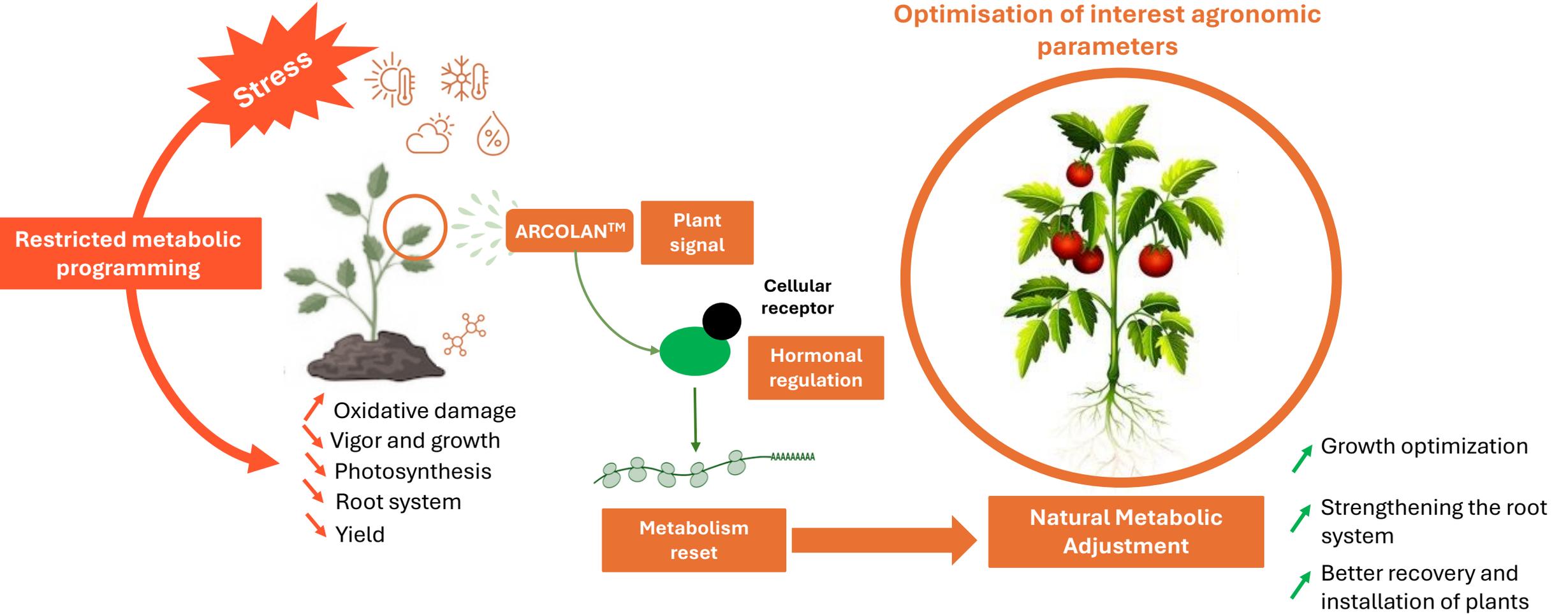
Keep in a cool, dry place, away from light and high temperatures.

Classification and labelling according to Regulation (EC) No 1272/2008 :

Not classified product



Optimisation of interest agronomic parameters



MODE OF ACTION



Effect of ARCOLAN™ for market gardening

Positive effects on :

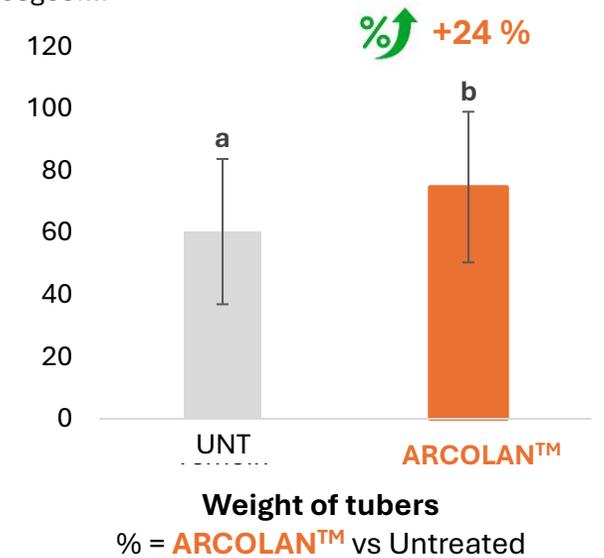
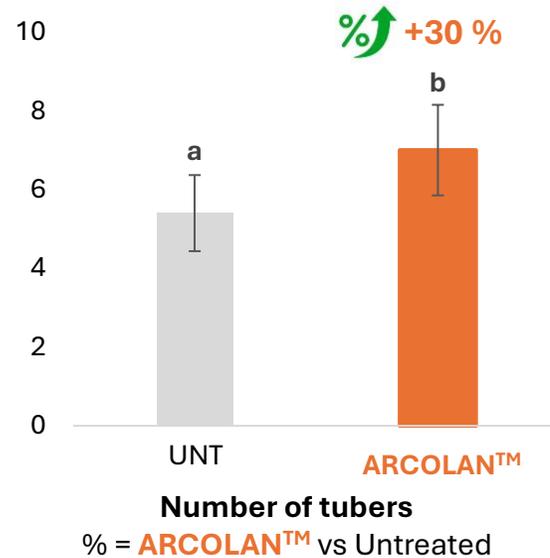
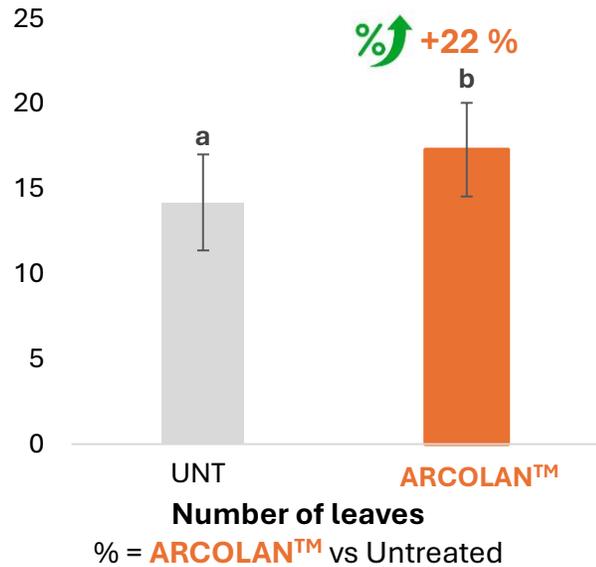
- ✎ Physiological processes (leaves, flowering, fruiting)
- ✎ The yield
- ✎ Trials on 10 different crops

Effect of ARCOLAN™ on the potato growth

Crop	Potato (Maiwen)
Localisation	Pézenas (34), France
Year	2024
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays /14 days
Assessed parameters	Number and weight of tubers (g) / plant Number of leaves / plant



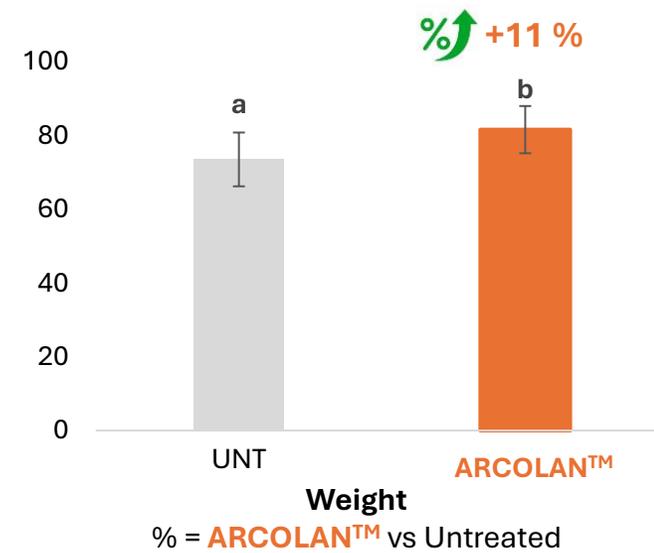
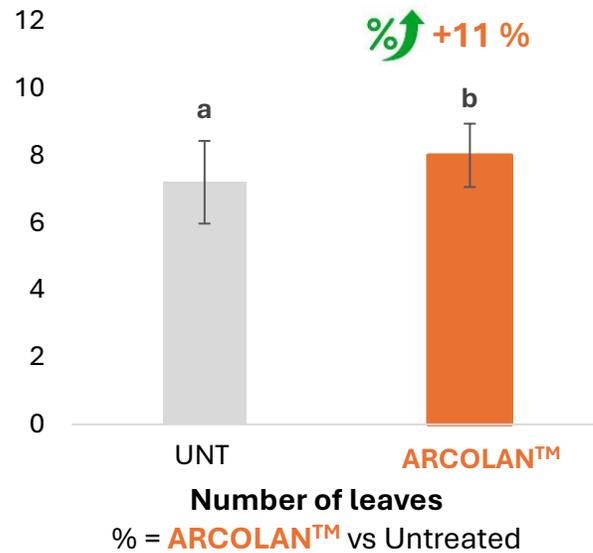
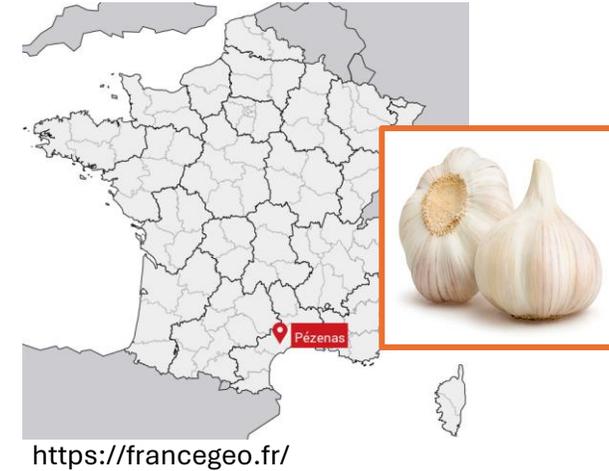
<https://francegeo.fr/>



🌱 + 22 % of leaves, + 30 % of tubers and +24 % of tuber weight for ARCOLAN™

Effect of ARCOLAN™ on the garlic growth

Crop	Garlic
Localisation	Pézenas (34), France
Year	2022/2023
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays /14 days
Assessed parameters	Number of leaves / plant Weight of garlic bulbs - yield



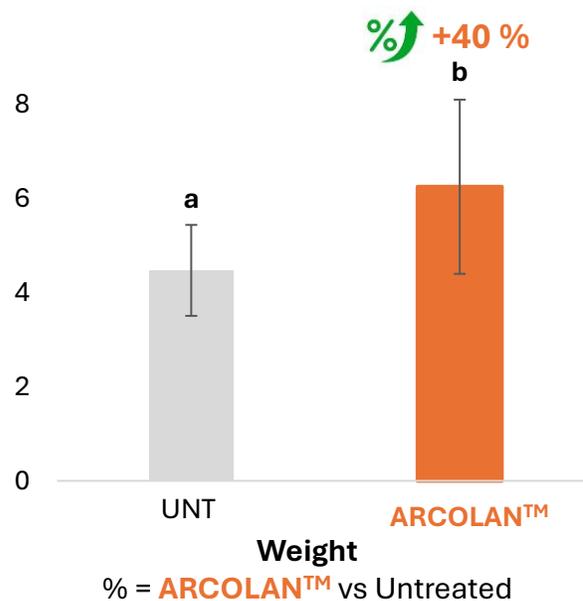
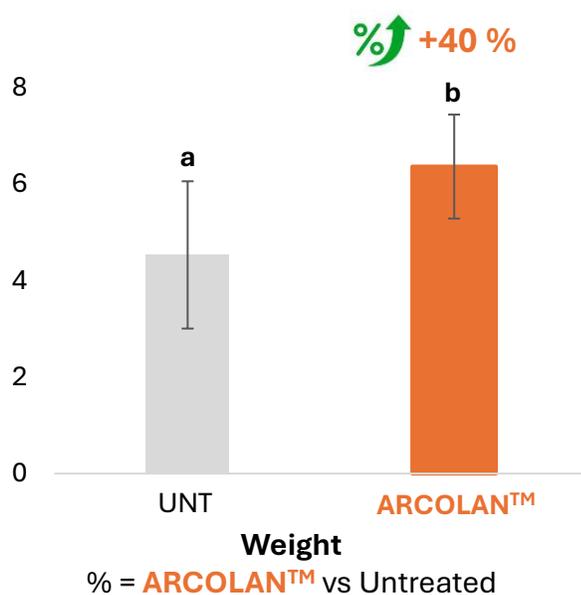
 **+11 % of leaves and + 11 % of weight for ARCOLAN™**

Effect of ARCOLAN™ on the radish growth

Crop	Radish
Localisation	Pézenas (34), France
Year	2024 (2 trials)
Modalities	Untreated/control ARCOLAN™ – 2 foliar sprays /9 days
Assessed parameters	Weight of radishes, without leaves (g)



<https://francegeo.fr/>



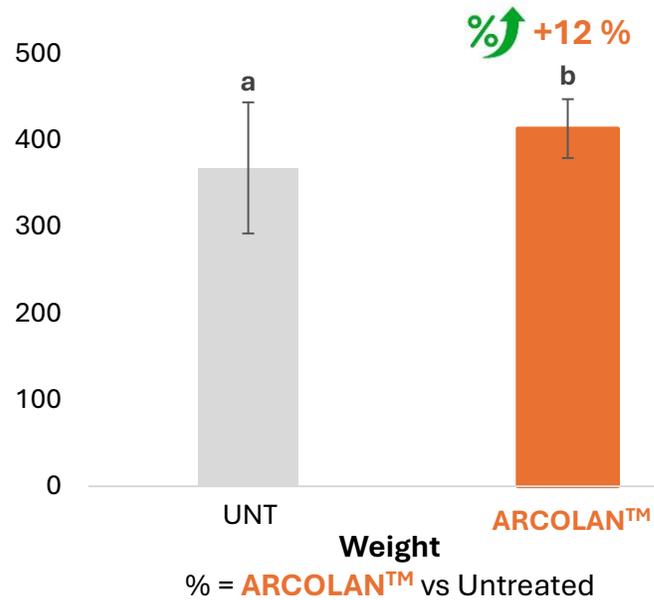
+ 40 % of weight for ARCOLAN™ (2 trials)

Effect of ARCOLAN™ on the black radish growth

Crop	Black radish
Localisation	Pézenas (34), France
Year	2024
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays /14 days
Assessed parameters	Weight of radishes, without leaves (g)



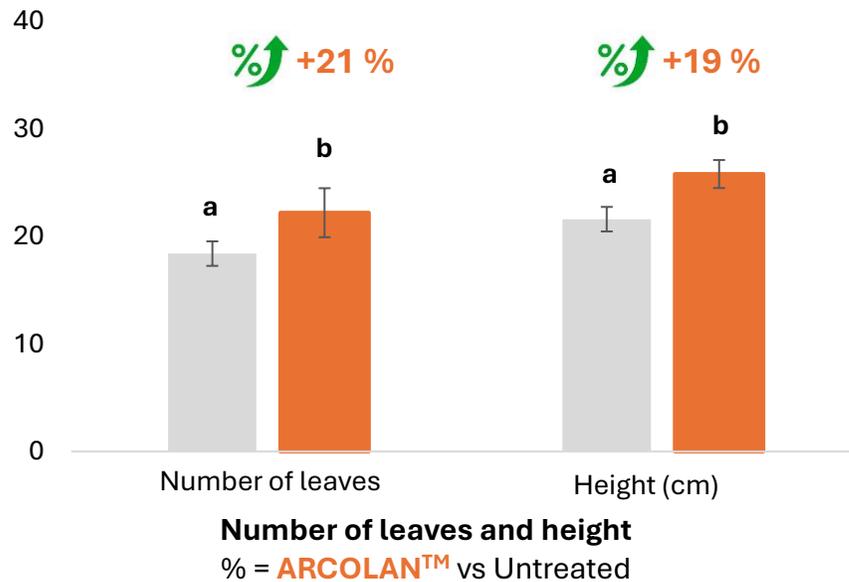
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 **+ 12 % of weight for ARCOLAN™**

Effect of ARCOLAN™ on the lettuce growth

Crop	Lettuce
Localisation	Saint-Mathieu-de-Trévières (34), France
Year	2022
Modalities	Untreated/control ARCOLAN™ – 2 foliar sprays /14 days
Assessed parameters	Number of leaves / plant Height (cm) / plant



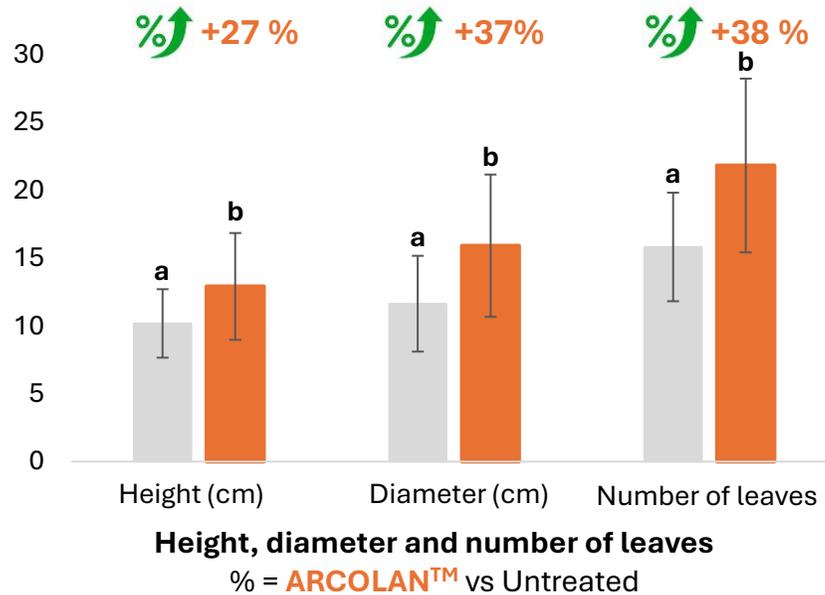
 **+ 21 % of leaves and + 19 % of height for ARCOLAN™**

Effect of ARCOLAN™ on the lettuce growth

Crop	Lettuce (Green tower)
Localisation	Pézenas (34), France
Year	2023
Modalities	Untreated/control ARCOLAN™ – 5 foliar sprays /14 days
Assessed parameters	Number of leaves / plant Height (cm) / plant Diameter (cm) / plant



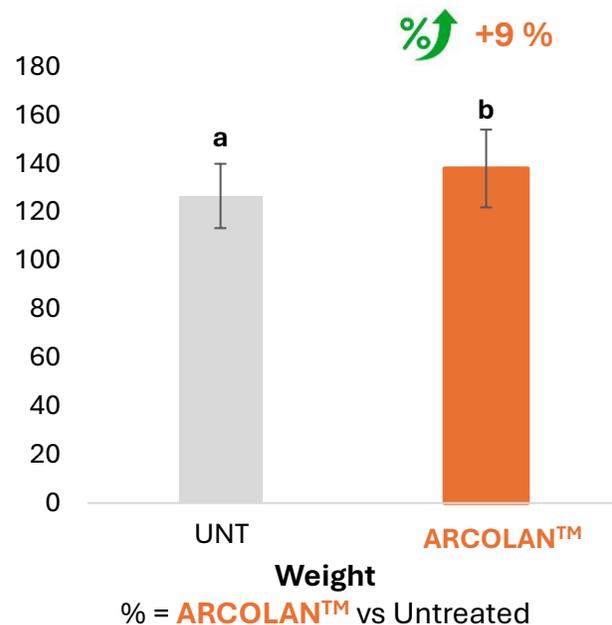
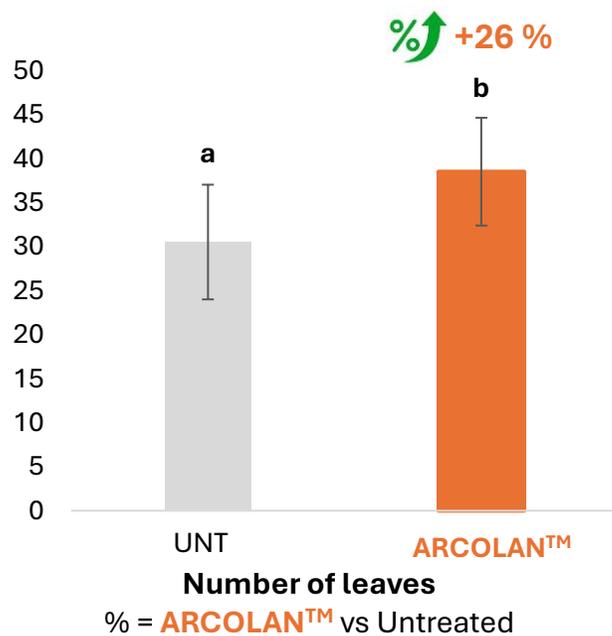
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+ 38 % of leaves, + 27 % of height and + 37 % of diameter for ARCOLAN™

Effect of ARCOLAN™ on the lamb's lettuce growth

Crop	Lamb's lettuce
Localisation	Pézenas (34), France
Year	2022
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays /14 days
Assessed parameters	Number of leaves / plant Weight (g) / plant



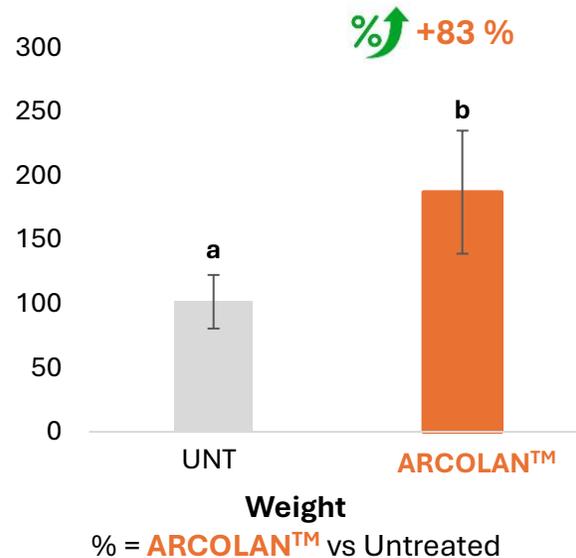
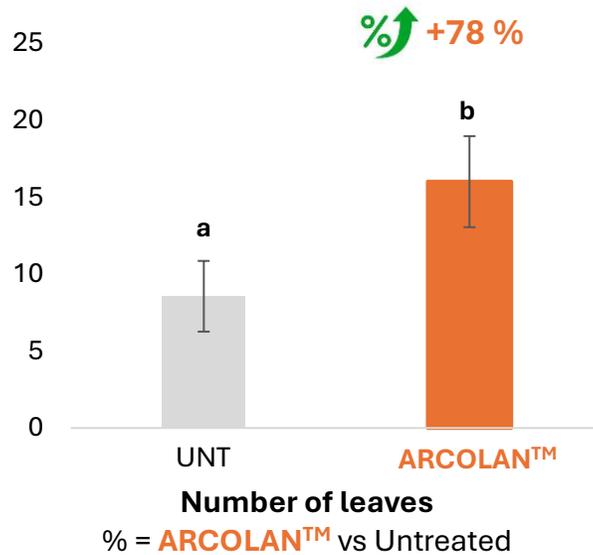
 **+ 26 % of leaves and + 9 % of weight for ARCOLAN™**

Effect of ARCOLAN™ on the batavia growth

Crop	Batavia
Localisation	Pézenas (34), France
Year	2023
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays /10 days
Assessed parameters	Number of leaves / plant Weight (g) / plant



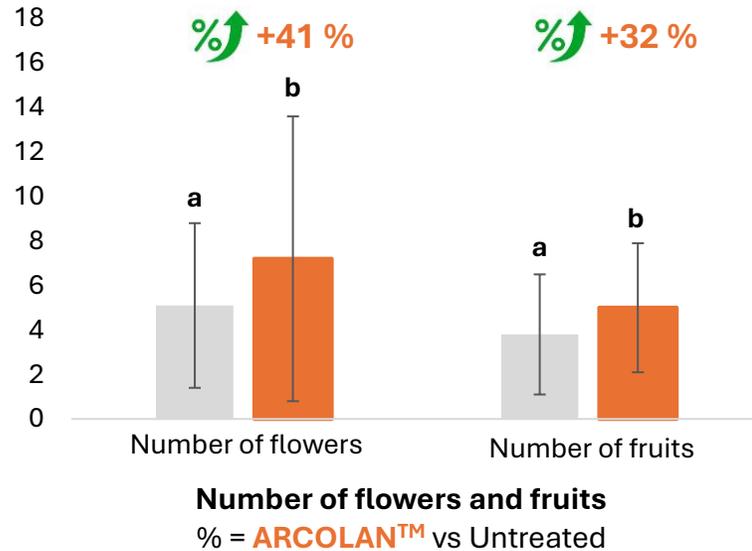
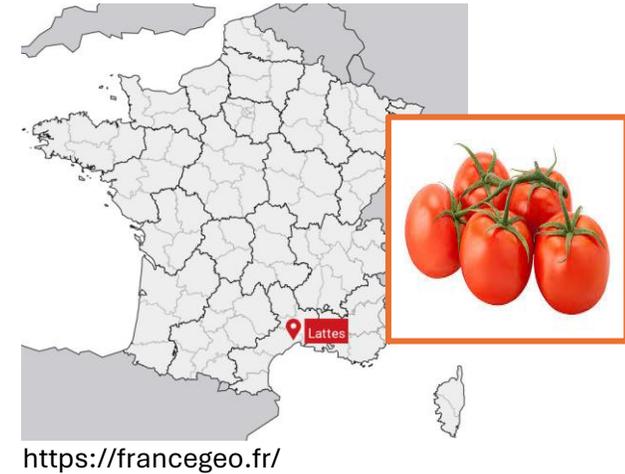
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🌱 **+ 78 % of leaves and + 83 % of weight for ARCOLAN™**

Effect of ARCOLAN™ on the tomato growth

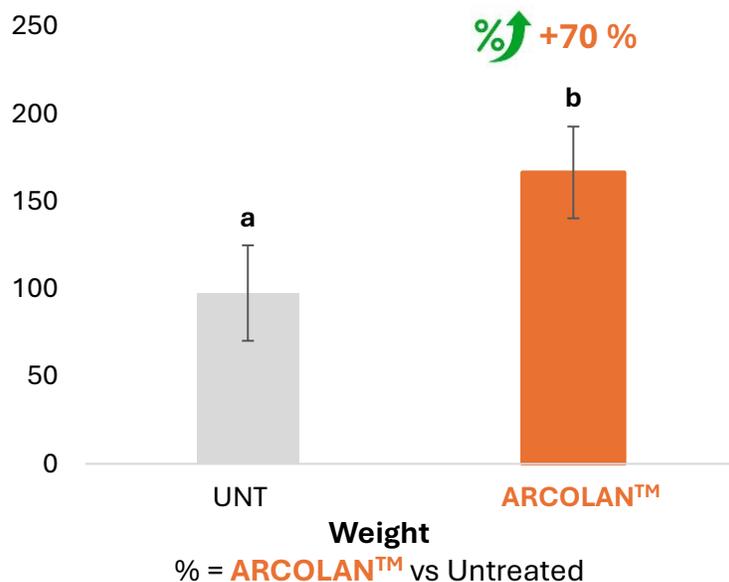
Crop	Tomato (Prince noir)
Localisation	Lattes (34), France
Year	2023
Modalities	Untreated/control ARCOLAN™ – 5 foliar sprays /14 days
Assessed parameters	Number of flowers / plant Number of fruits / plant



 **ARCOLAN™ improves flowering and fruiting**

Effect of ARCOLAN™ on the sugar beet growth

Crop	Sugar beet
Localisation	Pézenas (34), France
Year	2024
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays /14 days
Assessed parameters	Weight, without leaves (g) - yield



 **+ 70 % of weight for ARCOLAN™**

Effect of ARCOLAN™ on the sugar beet yield – GEP Trials

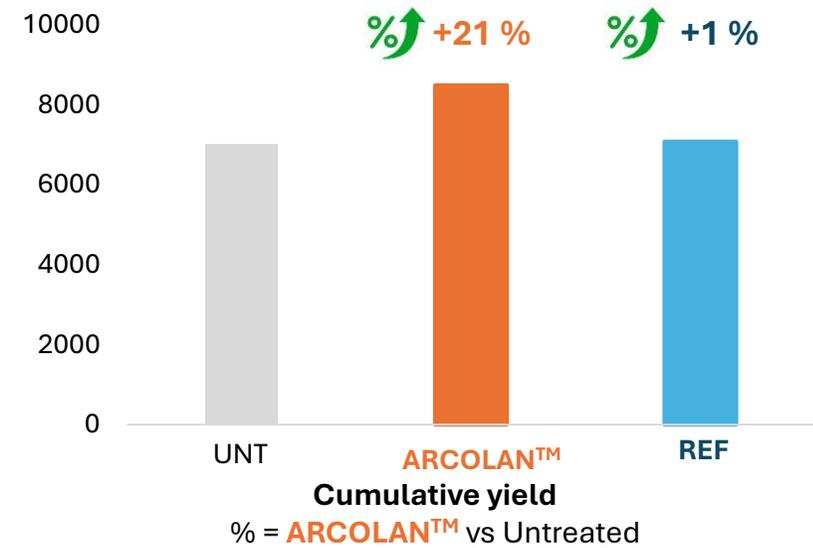
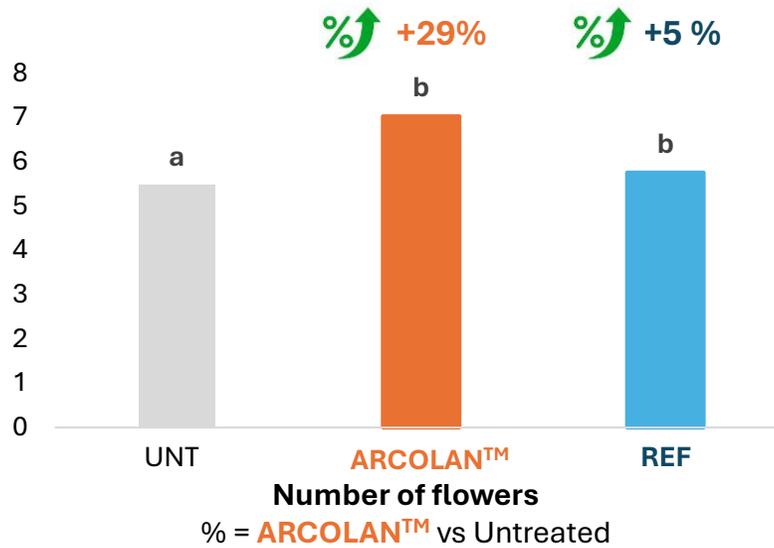
Year	Organism	Formulation	Yield vs Untreated	Yield (16%) vs Untreated
2021	EPHYDIA	Liquid	+10,9 T/ha	+14,0 T/ha
2022	EPHYDIA	Liquid	+ 9,5 T/ha	+8,6 T/ha
2023	ANTEDIS	Liquid	+3,3 T/ha	+ 6,1 T/ha
2024	ANTEDIS	Liquid	+ 1,4 T/ha	+ 1,8 T/ha
2023	ANTEDIS	Powder	+ 3,3 T/ha	+ 6,4 T/ha
2024	ANTEDIS	Powder	+5,0 T/ha	+ 5,7 T/ha
2024	EPHYDIA	Powder	+ 5,2 T/ha	+3,8 T/ha
2023	ANTEDIS	Powder	+ 8,3 T/ha	+ 8,4 T/ha
2024	EPHYDIA	Powder	+3,1 T/ha	+1,9 T/ha
2023	ANTEDIS	Powder	+1,9 T/ha	+5,5 T/ha



 **ARCOLAN™** boosts the yield of sugar beets

Effect of ARCOLAN™ on the cucumber growth – GEP Trial

Crop	Cucumber
Localisation	Elne (66), France
Year	2010 / Phytex
Modalities	Untreated/control ARCOLAN™ – 4 foliar sprays /10 days OSYRIL - Marketed reference
Assessed parameters	Number of leaves / plant Cumulative yield (g) / 48 plants



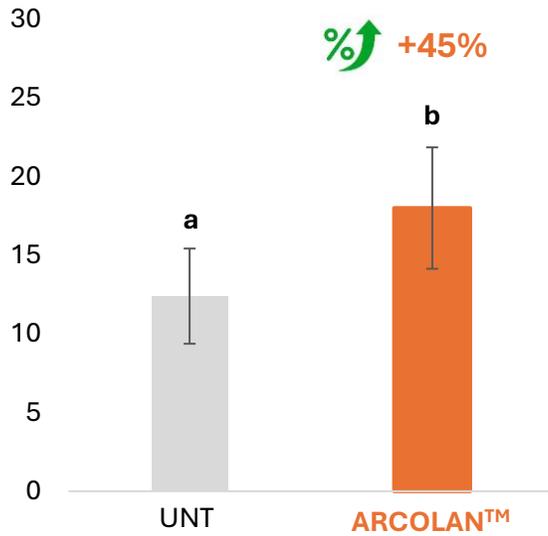
- 🌱 **ARCOLAN™** boosts the physiological development (leaves, flowers, fruits)
- 🌱 **ARCOLAN™** leads to greater gains compared to a commercial reference

Effect of ARCOLAN™ on the cucumber growth

Crop	Cucumber (MURAT HF1)
Localisation	Cazevieuille (34), France
Year	2021
Modalities	Untreated/control ARCOLAN™ – 5 foliar sprays /14 days
Assessed parameters	Number of leaves / plant Number of flowers / plant Cumulative yield (g) / 10 plants

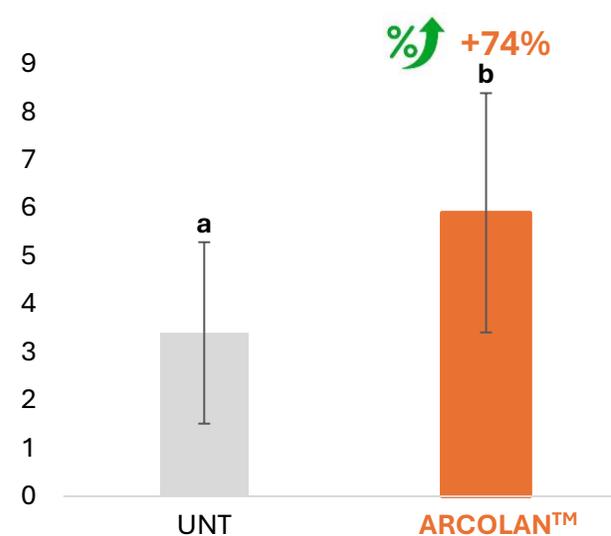


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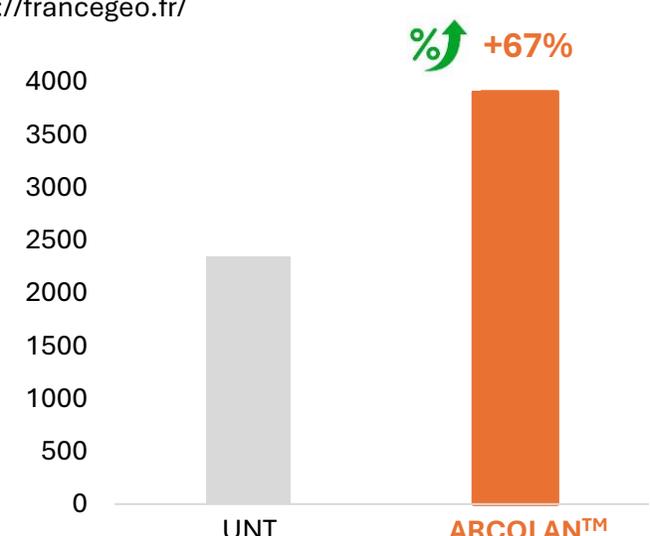
Number of leaves

% = ARCOLAN™ vs Untreated



Number of flower

% = ARCOLAN™ vs Untreated



Cumulative yield

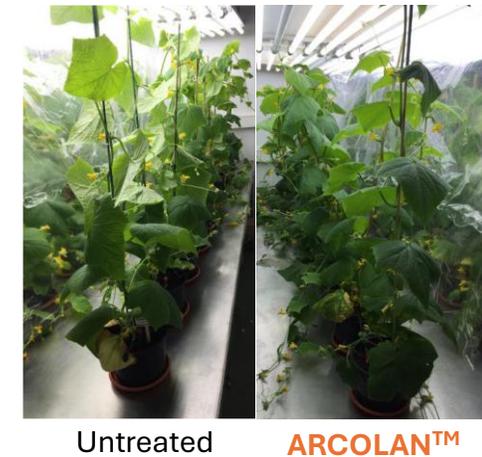
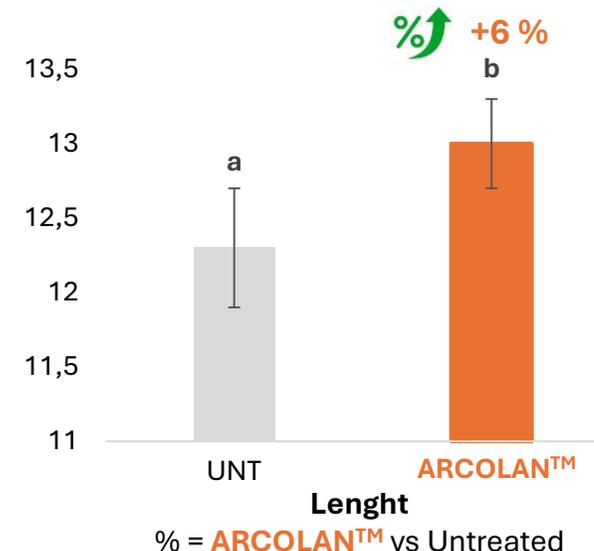
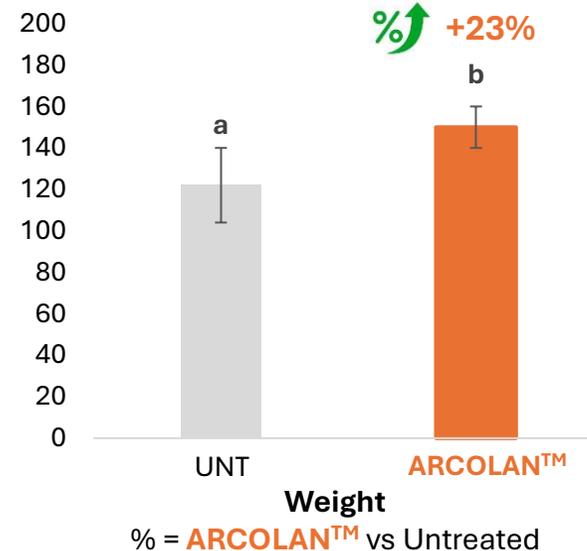
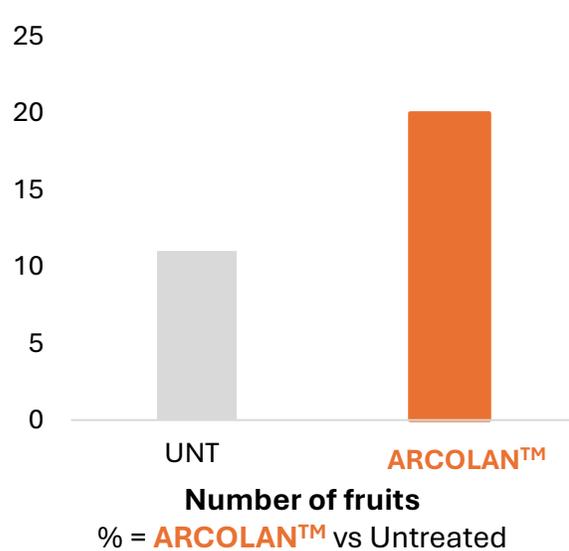
% = ARCOLAN™ vs Untreated

🌿 **ARCOLAN™** boosts the physiological development (leaves, flowers, fruits)

🌿 **+ 67 % of cumulative yield for ARCOLAN™**

Effect of ARCOLAN™ on the cucumber growth

Crop	Cucumber (Picoline)
Localisation	Montpellier (34), France
Year	2021
Modalities	Untreated/control ARCOLAN™ – 4 foliar sprays /14 days
Assessed parameters	Number of fruits / plant Weight (g) - yield Length (cm) - yield



🌱 **The number of cucumber is doubled for ARCOLAN™**
 🌱 **+ 23 % of weight for ARCOLAN™**



Conclusion

- ✦ **ARCOLAN™** is tested with powder formulation and applied by foliar spray.
- ✦ **ARCOLAN™** has a positive effect on the physiological development of plants and improves crop productivity.
- ✦ **ARCOLAN™**, suitable for organic farming, is respectful of the environment and life.