



TECHNICAL SHEET

ELICIR™
ARCOLAN GRAPEVINE



GRAPEVINE FOLIAR 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 GRAPEVINES - An innovative and efficient biostimulation solution, 100% biosourced

- Increases vineyard productivity without affecting bunches and wine quality
- Increases the success rate during planting/replanting (improves the development of the root system)
- Stimulates and strengthens the root system in the face of hydric variations
- Optimize sap flows in accordance with biology and need of the plants.
- Promotes and stimulates flowering
- Optimizes and homogenizes ripening





ELICIR™
ARCOLAN™ GRAPEVINE

New
Patented
Technology

ELICIR offers an extremely effective breakthrough agronomic technology.

ELICIR has been involved in the wine industry for several years.

ARCOLAN™ is a tool for the environmental transition of viticulture.

Treatments by foliar application, in accordance with agricultural practices.

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

ARCOLAN™ has no impact on the wine making processes (fermentation and organoleptic qualities).

ARCOLAN™ can be used for table grapes.

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



CONDITIONS FOR USE :

CROP	Dose	<ul style="list-style-type: none">Maximum number of applicationsInterval
GRAPEVINE	0.1 Kg/hL	<ul style="list-style-type: none">1-6 applications10 – 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 :

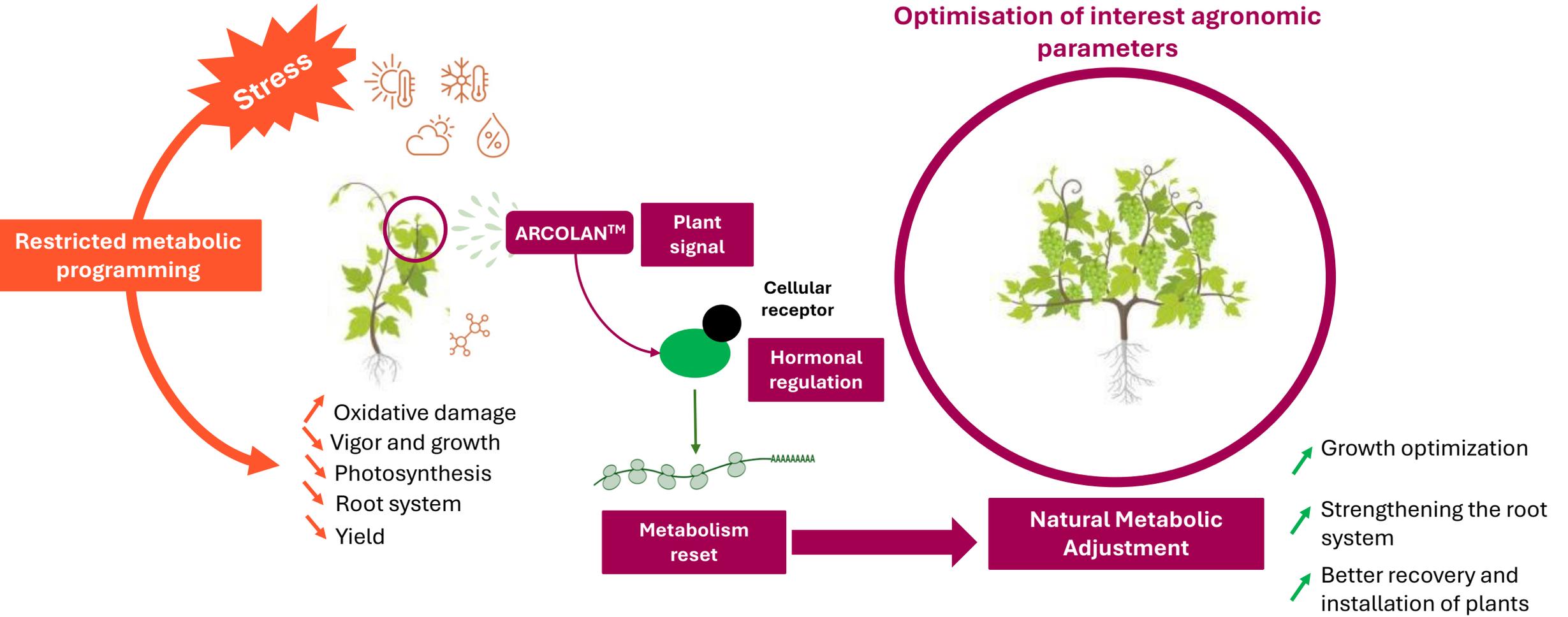
Keep in a cool, dry place, away from light and high temperatures.

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

Not classified product



Optimisation of interest agronomic parameters



MODE OF ACTION



Effect of ARCOLAN™ on grapevine growth

- ✎ Positive effect on young grapevine development
- ✎ Positive effect on the yield while maintaining quality
- ✎ 9 trials in the Herault (34) department, France, carried out with 5 vine varieties



Effect of ARCOLAN™ on the young grapevine growth (after frost period)

Crop	Young grapevine (Syrah)
Localisation	Valflaunès (34), France
Year	2021
Modalities	Untreated/control ARCOLAN™ - 6 foliar sprays/14 days
Assessed parameters	Number of shoots / plant (40 days)



<https://francegeo.fr/>



Untreated



Grapevine after frost period
+ ARCOLAN™ treatment

Number of shoots (per plant)

ARCOLAN

3,8

* **%** **+73 %**

2,2

* Significant difference (Student test)
% = **ARCOLAN™** vs Untreated

+ 73 % of shoots for ARCOLAN™

Effect of ARCOLAN™ on the young grapevine growth

Crop	Young grapevine (Mourvèdre)
Localisation	Saint Jean de Cuculles (34), France
Year	2022
Modalities	Untreated/control ARCOLAN™ – 5 foliar sprays/14 days
Assessed parameters	Number of leaves / plant (54 days)



<https://francegeo.fr/>

Number of leaves (per plant)

ARCOLAN™ 12,7 * %↑ +49 %
8,5

* Significant difference (Student test)
% = ARCOLAN™ vs Untreated

🌱 + 49 % of young leaves for ARCOLAN™

Effect of ARCOLAN™ on the young grapevine growth

Crop	Young grapevine (Souvignier gris)
Localisation	Saint Thibery (34), France
Year	2024
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays/14 days
Assessed parameters	Number of leaves / plant (70 days)



Number of leaves (per plant)



* Significant difference (Student test)
% = ARCOLAN™ vs Untreated

🌱 + 59 % young leaves for ARCOLAN™

Effect of ARCOLAN™ on the yield

Crop	Grapevine (Cabernet sauvignon)
Localisation	Nézignan-l'Évêque (34), France
Year	2022
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays/14 days
Assessed parameters	Yield



<https://francegeo.fr/>



Yield (kg per plant)



★ Significant difference (Student test)
% = ARCOLAN™ vs Untreated

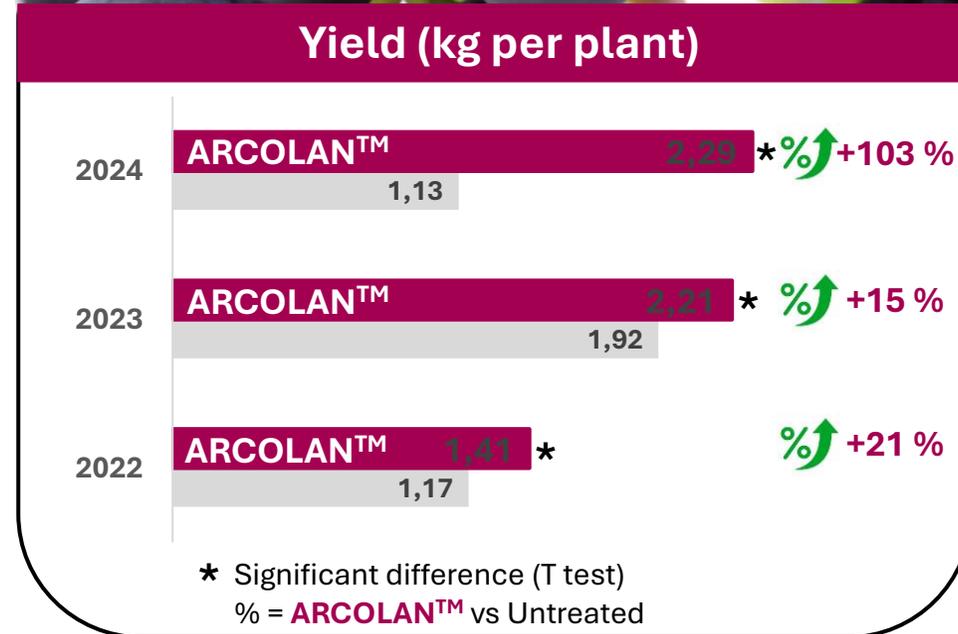
🌿 + 27 % of the yield for ARCOLAN™

Effect of ARCOLAN™ on the yield

Crop	Grapevine (Syrah)
Localisation	Cazevieille (34), Pic Saint Loup, France
Year	2022, 2023 et 2024
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays/14 days
Assessed parameters	Yield Grape analysis at yield- ICV Vinifications - ICV



<https://francegeo.fr/>

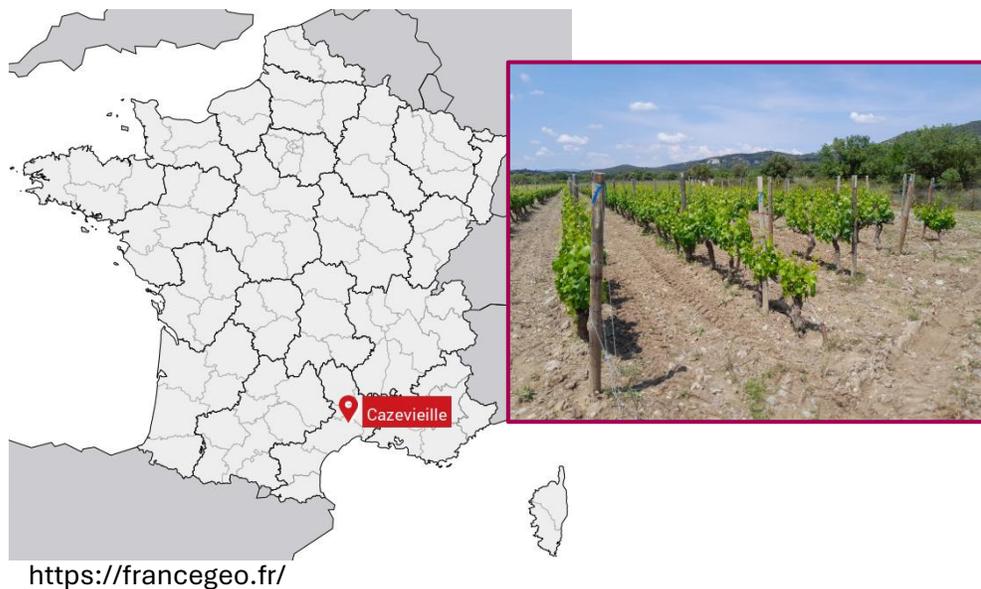


🌿 **Yield has been increased during 3 consecutive years for ARCOLAN™**

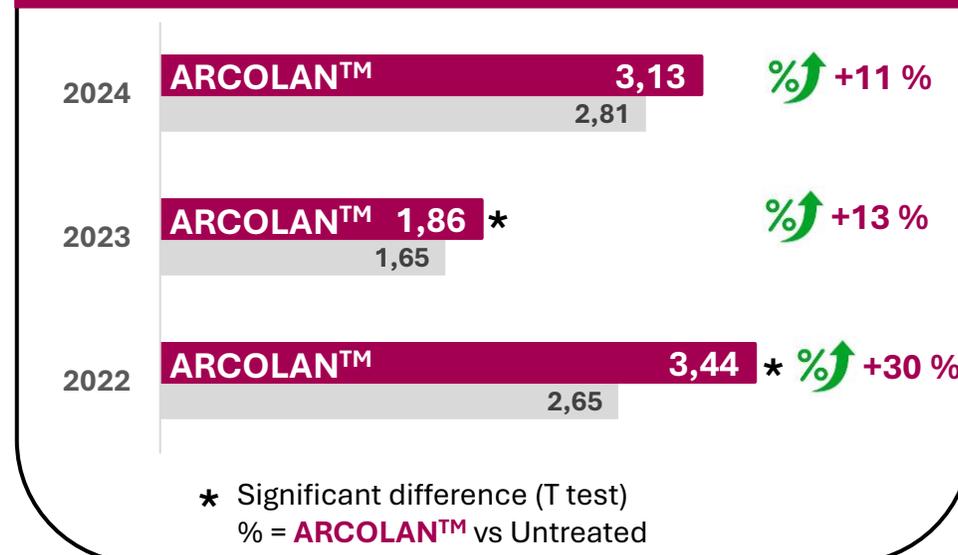
🌿 **An equivalent maturity control of bunches was observed**

Effect of ARCOLAN™ on the yield

Crop	Grapevine (Grenache)
Localisation	Cazevieille (34), Pic Saint Loup, France
Year	2022, 2023 et 2024
Modalities	Untreated/control ARCOLAN™ – 6 foliar sprays/14 days
Assessed parameters	Yield Grape analysis at yield- ICV Vinifications - ICV



Yield (kg per plant)



🌿 **Yield has been increased during 3 consecutive years for ARCOLAN™**

🌿 **An equivalent maturity control of bunches was observed**



Conclusion

- ✎ Results indicate that treatments with **ARCOLAN™** has a positive effect on the young grapevine growth : **+ 55 % of young leaves** during the year of plantation **(2 trials)**.
- ✎ Experiments carried out on the grapevines show a higher yield of **around 30% (7 trials)**.
- ✎ **ARCOLAN™** does not affect the quality of bunches.
- ✎ **ARCOLAN™** allows the grapevine to better resist to hydric stress (year 2022).

Climate variability

2022 : the hottest year ever recorded in France since the beginning of the 20th century. It began and ended with extreme mildness and was punctuated by episodes of remarkable heat, including a very early episode in May. May and July recorded a record deficit in precipitation.

<https://meteofrance.fr/actualite/publications/2022-les-bilans-climatiques>

2023 : Fairly to very heavily deficient rain + T° quite warm in the Hérault department.

<https://odee.herault.fr/index.php/thematiques/climatologie>