



PROTECTS VINEYARDS AGAINST ABIOTIC STRESSES

LalVigne RESILIENS™ is a natural product based on oenological yeast derivatives that promotes greater resistance to abiotic stresses. Improves vineyard adaptation to abiotic stress situations, strengthening the plant to overcome these episodes and helping to reduce recovery time after being subjected to unfavorable stress conditions.

Various abiotic stress conditions can cause disorders in the physiological and biochemical processes of grapevines, and can limit the growth of the plant, as well as the quantity and quality of the grapes and therefore the quality of the wine.

LalVigne RESILIENS™, applied preventively, will increase the tolerance of the vineyard to any abiotic stress situation it may suffer, increasing its resistance capacity and maintaining its productive and qualitative potential.



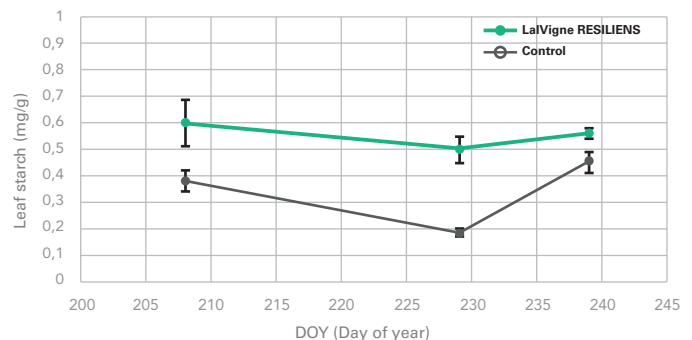
Saccharomyces cerevisiae yeast (Lallemand Group)
 © Getty Image

WHY SHOULD I USE LALVIGNE RESILIENS?

In most viticultural areas of the world, grapevines will suffer unfavorable environmental conditions during the vegetative cycle that will cause stress situations due to high or low temperatures, heat waves, frost, salinity, strong winds, drought, floods or excessive UV radiation.

Faced with these adverse conditions, the use of **LalVigne RESILIENS** will achieve:

- A high degree of vineyard resistance to all these abiotic stress situations.
- Increased yield
- Reduced abiotic stress symptoms and accelerated plant recovery after these stress phenomena.
- Improved adaptive capacity of grapevines to abiotic stresses.

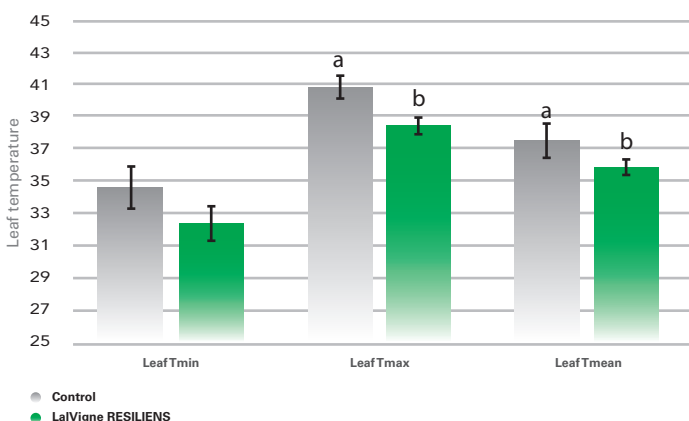


This graph, results of a test carried out by the Catholic University of Piacenza (Italy), shows how the vines treated with **LalVigne RESILIENS** had significantly higher levels of starch in the leaves than the untreated control. Starch is a primary product of photosynthesis and it is stored in the leaf chloroplasts during the day and is used during the night to support respiration, leaf metabolism and growth. Higher starch concentration is linked to higher leaf photosynthetic rates and contributes to ameliorate vine carbon balance when assimilation rates are limited by environmental factors.

BENEFITS

Increases the adaptive capacity of the vine with positive results in adverse situations.

- Natural treatment that reduces the negative impact that abiotic stress conditions can have on the vineyard
- Increases yield
- Improves the quality and balance of grapes
- Increases the physiological activity of the plant
- Improves leaf water potential values
- Prevents stress caused by extreme temperatures, UV radiation, salinity, drought, wind and limits the effects of heat waves
- Favors vineyard recovery after frost episodes
- Improves bunch microclimate conditions
- Reduces problems associated with abiotic stresses on wine quality and winemaking process



The above graph, obtained from a trial carried out by the Catholic University of Piacenza (Italy), shows the improvement in the physiological behavior of vines treated with **LalVigne RESILIENS**, with better thermoregulation of the canopy reaching lower temperatures on day of year 209 on the treated leaves, this reduces the negative impact of heat stress on the development of the plant, its production level and the quality of the grapes

WARNING

The information contained herein is true and accurate to the best of our knowledge. However, this document should not be considered a contract or warranty. On the other hand, the buyer and seller understand that the cultivation of vines is influenced by many circumstances. It is the buyer's responsibility to adapt the use of our products to such circumstances. There is no substitute for good wine growing and winemaking practices and permanent monitoring.

June 2021

CHARACTERISTICS

Product for foliar application.

Composition

Oenological yeast derivative (*Saccharomyces cerevisiae*) from Lallemand Oenology.

Non GMO.

Packaging

10 kg carton containing 10 bags of 1 kg.

Storage

Non-flammable product.

Store in sealed original packaging. Store preferably in a cool and dry place. Avoid extreme storage condition.

Organic Agriculture

Product suitable in organic farming according to EC Regulation N° 834/2007 and N° 889/2008.

DOSE AND APPLICATION

It is recommended to start applications preventively before the onset of conditions that may cause abiotic stress in the vineyard.

Recommended application rate on vines

0,5 kg/ha.

Effective beginning at the first application.

It is recommended to start the application once the shoots reach a size of 10 to 20 cm and to maintain applications at intervals of about 14 days during the vegetative growth phase of the vineyard.

Interval between applications around 14 days.

If **LalVigne RESILIENS** has not been applied preventively, it can be used once stressful situations occur to promote plant recovery.

Foliar application.

Dilute in water for its application (approximately 100 - 1000 l / ha; 10 - 110 gal / acre).

Follow the instructions on the application protocol and recommended crops.