

LalVigne™

BOTRYLESS™

Natural botrytis and sour rot defense



NATURAL SOLUTION FOR BOTRYTIS AND SOUR ROT

LalVigne BOTRYLESS™ is a natural product with a dual mode of action to help the plant dealing with *Botrytis* and sour rot in grapevines. It directly prevents the growth of the fungus as well as activates the plant's defense mechanisms helping the control of the diseases.

Botrytis cinerea is a pathogenic and necrotrophic fungus responsible for the disease known as Grey Rot. Sour rot is caused by a consortium of pathogenic microorganisms (apiculate yeasts and *Acetobacter*) that can proliferate rapidly in the presence of wounded berries.

Both diseases can cause great economic losses in the wine industry reducing yields and diminishing the quality of must and wines.

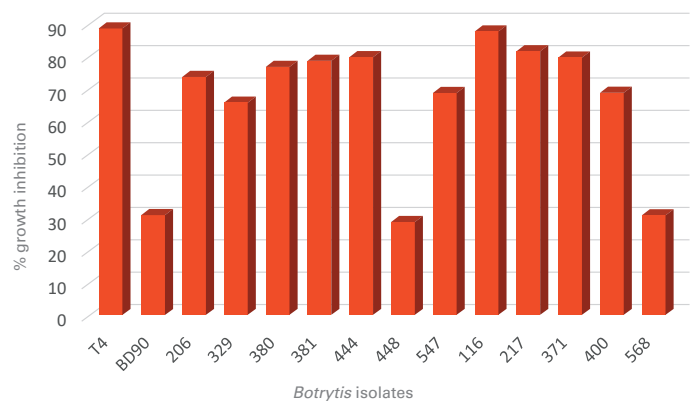
When the conditions are favorable for the proliferation of these pathogenic microorganisms, their spread is rapid and virulent. Intervening in a preventive manner, towards the mid-late flowering, is the best control strategy. In the case of high pressure, it is recommended to plan interventions also in subsequent phases.

Under conditions of *Botrytis* attack, **LalVigne BOTRYLESS™** improves bunch health. This results in bunches with lower gluconic levels and higher yields. The treatment has a positive impact in the development of acetic bacteria in the vineyard.

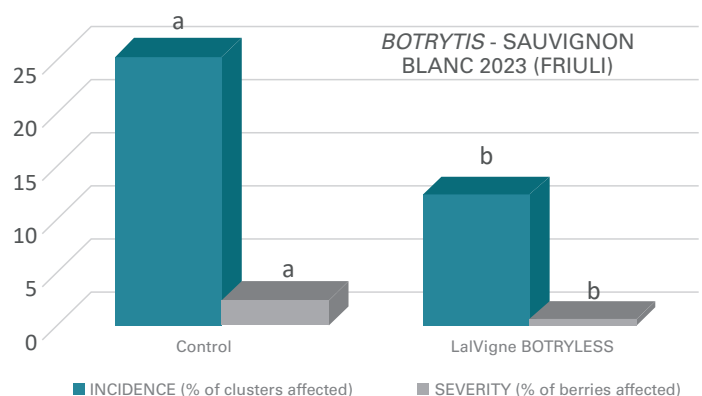
WHY SHOULD I USE LALVIGNE BOTRYLESS™?

- **LalVigne BOTRYLESS™** is a natural solution that has no pre-harvest interval (PHI) or maximum residue limit, helping to reduce the risk of *Botrytis* and sour rot infection.
- **LalVigne BOTRYLESS™** reduces the impact of damage caused by *Botrytis* and sour rot by strengthening the plant's natural defenses and exerting a direct inhibitory action on the proliferation of pathogenic fungi, yeasts and bacteria. Due to these characteristics, **LalVigne BOTRYLESS™** can be used both as a preventive and as a containment treatment.

LALVIGNE BOTRYLESS



The graph above illustrates the result of a test carried out by the University of Salamanca which confirms the effect of **LalVigne BOTRYLESS™** on inhibiting the growth of different *Botrytis* isolates in Petri dishes with MEA culture medium. This % of inhibition, for most of the isolates studied, was higher than 60% and in many cases exceeded 70%. The fungistatic effect is only one of the ways in which **LalVigne BOTRYLESS™** acts in the vineyard to reduce *Botrytis* infection.



Different letters indicate significant differences between samples for $P < 0.05$ (t-test).

Evaluation of the effectiveness of the use of **LalVigne BOTRYLESS™** in the control of *Botrytis*, surveys carried out at harvest date. In the sample, three treatments were performed: at the end of flowering, at pre-closure of the clusters, and at the beginning of veraison at 100g/hL (300g/ha).

BENEFITS

Natural solution for *Botrytis* and sour rot control

○ <i>Inhibits the growth of Botrytis</i>
○ <i>Contains the development of bacteria linked to sour rot</i>
○ <i>Can be used as preventive and/or containment approaches</i>
○ <i>Strengthens the natural defenses of the vine</i>
○ <i>Reduces yield and quality losses associated to Botrytis and sour rot</i>
○ <i>No pre-harvest interval (PHI) or maximum residue limit (LMR)</i>
○ <i>Fungal origin: higher efficacy, better plant recognition</i>
○ <i>No negative impact on winemaking process</i>
○ <i>Healthier grapes. Easier winemaking process</i>
○ <i>No resistance risk, offers an alternative organic based complement to agents with resistance risk, especially at short spray intervals</i>



If the previous years infection pressure was high, it is important to start preventive treatments well in advance in the new season when favorable conditions for the fungus appear. In climatic conditions favorable to *Botrytis*, treatments should begin after flowering.

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.

March 2026

CHARACTERISTICS

Basic substance
Product authorised as basic substance according to Regulation (EC) No 1107/2009 (CAS: 9012-76-4).

Composition

100% fungal chitosan (*Aspergillus niger*)
NON GMO.

Organic Agriculture

Product suitable in organic farming according to Regulation (UE) 2018/848 and 2021/1165.

Packaging

1 kg bags.

Storage

Non-flammable product.
Store original packaging in a cool and dry place.

DOSE AND APPLICATION

Effective from the first application.

○ Botrytis:

Preventive use: 1-2 treatments from end of flowering to bunch closure. Dose: 200-400 g/ha (100 g/hL), in conditions of high risk: 500-600 g/ha and increase the number of applications.

For early application cover the whole canopy to ensure the elicitor effect.

Containment use: treatment at 500-600 g/ha at the onset of the first symptoms, direct the application to the bunch area.

○ Sour rot:

1 treatment at bunch pre-closure and upon the appearance of the first symptoms or predisposing situations, at 200-600 g/ha depending on the pressure.

Interval between applications: 14 days.

Maximum n° of applications: 8.

Volume of water recommended: 200 – 600 l / ha.

Dissolve LaVigne Botryless in water at pH between 5,5 and 7.

LaVigne BOTRYLESS™ can be mixed with the main phytosanitary products: fungicide, insecticide including oil. When mixed, dissolve the other products separately; add **LaVigne BOTRYLESS™** dissolved in water as last in the sprayer.

When mixed with a new product for the first time, it is recommended to run a quick test on a few plants.

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