

PRODUCT INFORMATION

2B FermControl

FERMENTATION TECHNOLOGY & ŒNOLOGY

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MaloBacti™ CN1

NEW FREEZE DRIED BACTERIA STRAIN WITHOUT CITRIC ACID METABOLISM THE NEW

STANDARD FOR MLF IN RED AND WHITE WINE

▶ No more diacetyl in wine

MaloBacti™ CN1 represents a new generation of freeze dried MLF starter cultures of *Oenococcus oeni* with unique properties. MaloBacti™ CN1 has the ability to avoid diacetyl formation from citric acid degradation.

- Protection of the varietal characters and flavours in the wine after MLF
- No increase in the volatile acidity in the wine because no acetic acid production
- No buttery or butter-scotch flavor because there is no diacetyl production



New +A³ process

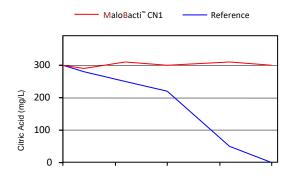
The new +A³ process accommodates an increased number of active cells in combination with a so far unreached fast activation and perfected adaption of the bacteria for the inoculation in wine or must.

- ▶ For fruity red and white wines.
- Increased survival rate of the bacteria at inoculation.
- Ideal adaptation to difficult conditions in wine already in 6-8 hours!

▶ No degradation of Citric Acid

MaloBacti™ CN1 protects the fruity flavors in the wine because the culture does not degrade the citric acid. This also reduces the risk of haze in the wine because the citric acid forms stable compounds with metal ions, the wines stay fresh.

MaloBacti™ CN1 does not produce acetic acid from the citric acid. Therefore no increase in volatile acidity as normally observed during malolactic fermentation. Even in wines from highly botrytis infected grapes, the formation of VA is very much limited.



IMPORTANT INFORMATION

- ▶ To dissolve product exactly 1L of water is needed for a 25 hL-pouch, 10L for a 250 hL-pouch and 200L for a 5.000 hL-pouch.
- First put in the +A³-media (1), then the bacteria (2). The water has to be non-chlorinated and non-distilled.

> Additional information

After activation of the bacteria the suspension can be stored for max. 5 days at 4-6°C. For another inoculation with the stored suspension adjust the temperature to the wine's temperature. Stir well again before inoculation. The addition of SO_2 can be done right after the completion of the MLF in order to avoid the growth of other undesired micro-organisms.

The addition of Thiamine (Vit.B1) or FermControl™ to the primary fermentation is recommended to reduce the S02 formation of yeast.

Package content

MaloBacti™ CN1 25 hL, 250 hL and 5.000 hL

Freeze-dried MLF starter cultures; *Oenococcus oeni* with a minimum cell count of $> 2 \times 10^{11}$ CFU/g. Strain: 22827.

▶ Shelf life / storage

2 years at min. -18 °C

4 weeks at +5 °C

5 days at 4-6 °C, if product is already activated Store frozen, always use the whole package at once

PRACTICAL APPLICATION ADVICE



Oenological properties

- NO FORMATION OF DIACETYL
- SO₂: tolerance at pH 3.3 < 20ppm
- pH range >3.2
- Ethanol tolerant up to 14.0% vol.
- ▶ Temperature range: 17-26 °C
- For red and white wine



During activation stir suspension twice.





water 1L

10L

- non-chlorinated, non-distilled
- > 25 hL-pouch
- > 250 hL-pouch ,etc.
- keep water at 23-28 °C
- 1. dissolve the +A³-media (chamber 1) in water
- ▶ 2. dissolve the bacteria (chamber 2) in solution, stir for approx. 5-8 min.



After maximum **6-8 hours** of activation the pH should drop to < **3.8**. The bacteria are now completely activated. Check with a pH-meter.





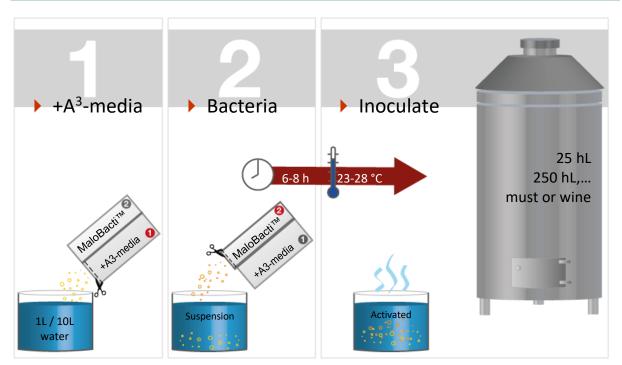
The activation of the suspension will take 6-8 hours at 23-28 °C.



Stir suspension again and inoculate in 25/250 hL of wine. Stir well again.

Maintain temperature of wine at approx. 17-20 °C during MLF.











Disclaimer.

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