

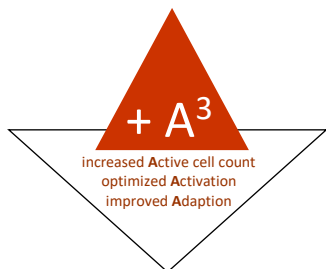
MaloBacti™ CN1

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

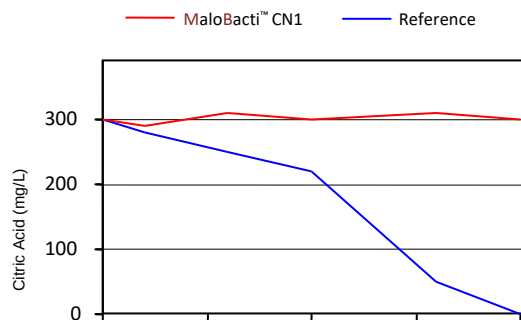
The new +A³ process accommodates an increased number of active cells in combination with a so far unreached fast activation and perfected adaption of the bacteria for the inoculation in wine or must.

- 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 SO₂ 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 SO₂ formation of yeast.

► Package content

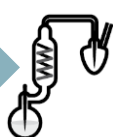
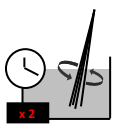
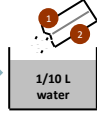
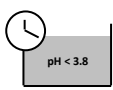
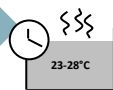
MaloBacti™ CN1 25 hL, 250 hL and 5.000 hL

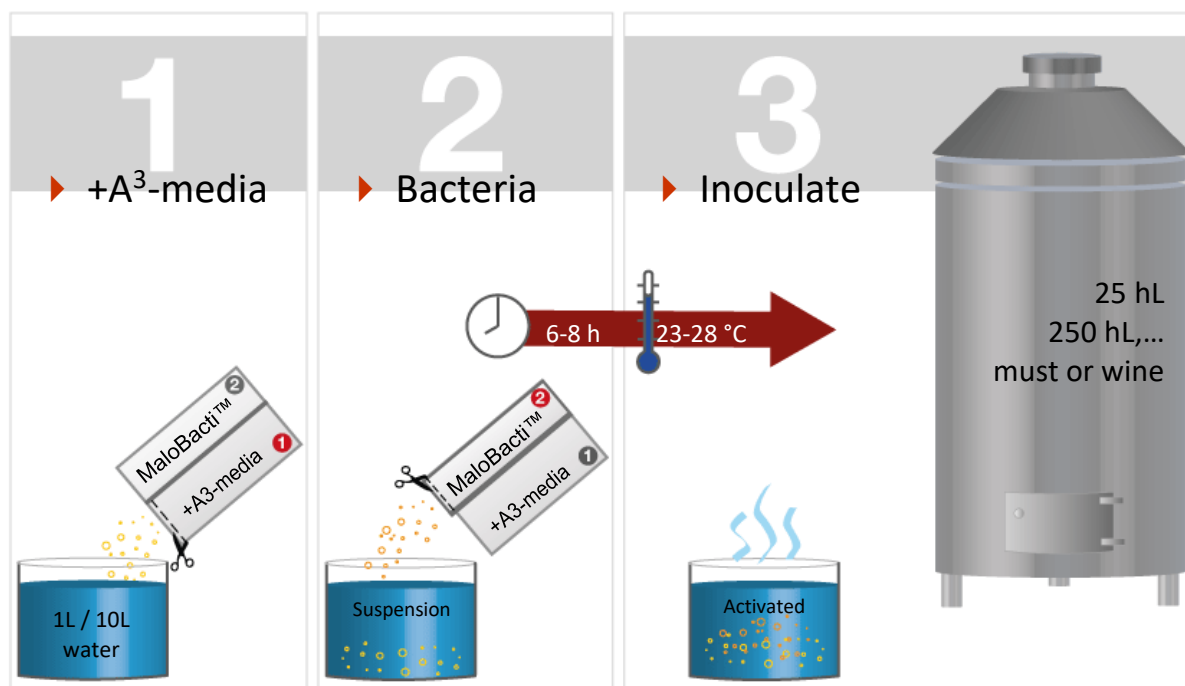
Freeze-dried MLF starter cultures; *Oenococcus oeni* with a minimum cell count of > 2 x 10¹¹ CFU/g. Strain: 22827.

► 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

1  Oenological properties ▶ NO FORMATION OF DIACETYL ▶ SO₂: tolerance at pH 3.3 < 20ppm ▶ pH range from 3.2 to 4.2 ▶ Ethanol tolerant up to 14.0% vol. ▶ Temperature range: 17-26 °C ▶ For red and white wine	4  During activation stir suspension twice.
2  water ▶ non-chlorinated, non-distilled 1L ▶ 25 hL-pouch 10L ▶ 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.	5  After maximum 8 hours of activation the pH will drop to < 3.8. The bacteria are now completely activated. Check with a pH-meter.
3  The activation of the suspension will take 6-8 hours at 23-28 °C.	6  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.



THE POWER OF
NATURE

Disclaimer:

The information, data and recommendations contained in this product information are provided in good faith, obtained from reliable sources, and believed to be true and accurate as of the date of revision. The PI serves as description of the products and its characteristics when used according to the protocol. No warranty, expressed or implied, regarding the product described in this PI shall be created or inferred by any statement in this PI.