LACTOENOS 450 PreAc®

Enococcus œni strain for a quick MLF start, combined with the exlcusive production process: PreAc[®]. Qualified for the elaboration of products for direct human consumption in the field of the regulated use in oenology. In accordance with the current EU regulation n° 2019/934.

SPECIFICATIONS AND OENOLOGICAL APPLICATIONS

- Strain with a high resistance to ethanol.
- One of the strains with the highest malolactic activity on the market in optimal conditions.
- Low production of diacetyl and ethyl lactate.
- · Low volatile acidity (VA) production.
- No biogenic amine production.
- The blend of effectiveness and cost makes LACTOENOS 450 PreAc® the ideal preparation for the control and reliability of malolactic fermentation in white and red wines of any style.

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TAV (% vol)	Up to 17
рН	From 3.3
Total SO ₂ (mg/L)	Up to 60
Temperature	From 16°C (60.8°F)

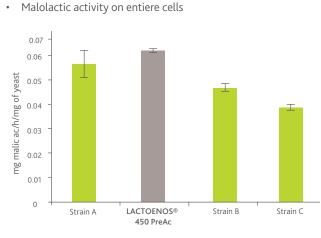
NB: These parameters have a cumulatively inhibiting effect.

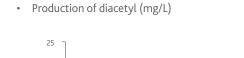
Survival and activity spectrum of the LACTOENOS 450 PreAc[®] bacteria:

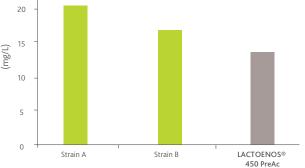
LACTOENOS 450 PreAc® allows a rapid onset of MLF. Implementation is simple (in 30 minutes only for early coinoculation and in 12 hours for late co-inoculation or post AF inoculation).

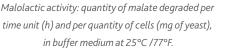
LACTOENOS 450 PreAc[®] is aromatically neutral and permits to preserve the fruity character of the wine.

EXPERIMENTAL RESULTS









Diacetyl production by 3 strains. Sample after MLF. * Merlot wine, 2005

LAFFORT l'œnologie par nature

PHYSICAL CHARACTERISTICS

Aspect Powder C	Colour Clear beige
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CHEMICAL AND MICROBIOLOGICAL ANALYSIS

Humidity (%)< 8
Bacteria counted on each Petri dish (CFU/g)
Mould (CFU/g) < 10^3
Yeast (CFU/g) < 10^3
Acetic bacteria (CFU/g) < 10 ⁴
Salmonella (/25g) None
Staphylococcus (/g) None

Coliforms (CFU/g)
. coli (/g) None
ead (ppm) < 2
1ercury (ppm) < 1
srsenic (ppm) < 3
Cadmium (ppm) < 1

PROTOCOL FOR USE

- Inoculate as soon as possible. There are several inoculation methods:
 - **Early co-inoculation** (bacteria inoculation 24 48h after the alcoholic fermentation start), technique more and developed that we advise for its many advantages like the optimisation of bacteria efficiency.
 - Late co-inoculation (inoculation at 1020 1010 density).
 - Sequential inoculation.
- Do not use opened bags.
- Use a container inert and clean. Mix 1 L of mineral water and 1 L of wine at 20°C /68°F for 50 hL dose. Dilute ENERGIZER[®], and then add the LACTOENOS 450 PreAc[®] dose. Homogenise and let it rest for 30 minutes in early co-inoculation, 12h at 20°C /68°F in late co-inoculation or sequential inoculation. Add to the tank.
- Maintain the tank temperature throughout the MLF (at about 20°C /68°F).
- In hard conditions (sluggish AF, poor medium or high alcoholic degree) and for a quicker MLF kinetic, add 20 -40 g/hL of MALOBOOST[®].
- Respect the volume of wine indicated on the bacteria dose (50 hL).
- LACTOENOS® 450 PreAc can be used in organic winemaking without the use of ENERGIZER®.

STORAGE RECOMMENDATION

- On reception, keep refrigerated (-18°C /-0.4°F or +4°C/32°F) in its unopened original packaging.
- Optimal date of use: 30 months at -18°C /-0.4°F.

18 months at +4°C/32°F.

- Do not use opened packaging.
- Unopened sachets of oenological bacteria can be transported and stored for 7 days at ambient temperature (< 25°C/77°F) without any significant loss of activity or efficacy.



PACKAGING

Dose for 50 hL and 250 hL (ENERGIZER[®] suplied).