



# GO-FERM<sup>®</sup> PROTECT



YEAST PROTECTOR FOR REHYDRATION STEP



**NATSTEP<sup>™</sup>** (NATural STERol Protection): yeast protection is used during the yeast rehydration step to reinforce the yeast membrane and help protect against osmotic shock.

**NATSTEP<sup>™</sup>** yeast protection also improves the yeast's alcohol tolerance, allowing a more predictable fermentation finish without sensory problems.

**NATSTEP<sup>™</sup>** is patented (Europe 1395649, Australia 2002317228).



**OMRI (Organic Materials Review Institute)** is a US national nonprofit organization that determines which input products are allowed for use in organic production and processing.

## Description

After many years of research in collaboration with the INRA (Institut National de Recherche en Agronomie in France), Lallemand has developed an effective and 100% natural biotechnological tool. **GO-FERM<sup>®</sup> PROTECT**, is a blend composed by a special high sterol yeast autolysate and a specific inactivated yeast rich in micronutrients, that improves yeast survival particularly in difficult fermentation conditions thanks to its high content in bioavailable microprotectors and micronutrients.

**GO-FERM<sup>®</sup> PROTECT** strengthens the yeast membrane making it stronger and more resistant to the stresses of fermentation thanks to microprotectors:

- Specific sterols
- Polyunsaturated fatty acids

**GO-FERM<sup>®</sup> PROTECT** maximizes yeast viability during fermentation thanks to micronutrients:

- Vitamins
- Minerals

**GO-FERM<sup>®</sup> PROTECT** optimizes yeast efficiency right from rehydration thanks to Lallemand's exclusive **NATSTEP<sup>™</sup>** process. This rehydration process provides:

- Optimal levels of bioavailable microprotectors and micronutrients.
- Optimal uptake and assimilation of microprotectors and micronutrients during rehydration.

## Application and results

Wine musts vary according to the varietal, vintage, maturity of grapes and vine fertilization. When the must is inoculated with yeast, it may be deficient in sterols, vitamins or minerals. There is no guarantee these microprotectors and micronutrients will be bioavailable for the yeast.

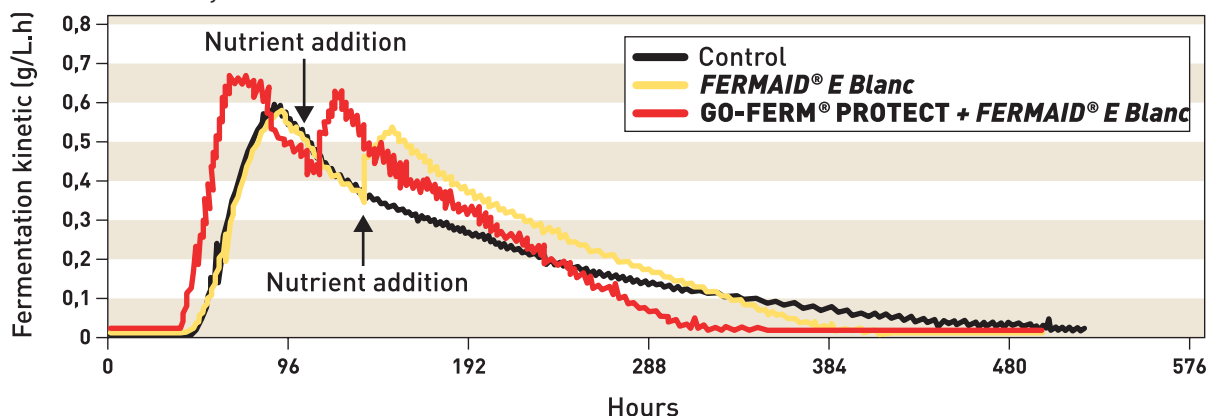
Use **GO-FERM<sup>®</sup> PROTECT** as soon as fermentation conditions are considered difficult, and when musts are suspected of having deficiencies in microprotectors and micronutrients, in such conditions as:

- Very mature harvests (high in sugars and extractable polyphenols).
- Botrytized harvests.
- Highly filtered, clarified, sulphited musts, etc.
- Preparation of stuck fermentation rescue yeast.

### 1. GO-FERM<sup>®</sup> PROTECT secures fermentation

- Improved stress resistance in yeast.
- Increased alcohol tolerance in yeast.
- Improved yeast survival through to the end of fermentation.
- Improved fermentation activity maintained until all sugars in the must have been consumed and fermentation is complete.

**CHART 1** Protection impact on security of alcoholic fermentation (Viognier 2005, 16°C, YAN: 122 mg/L NFA, turbidity: 6 NTU).



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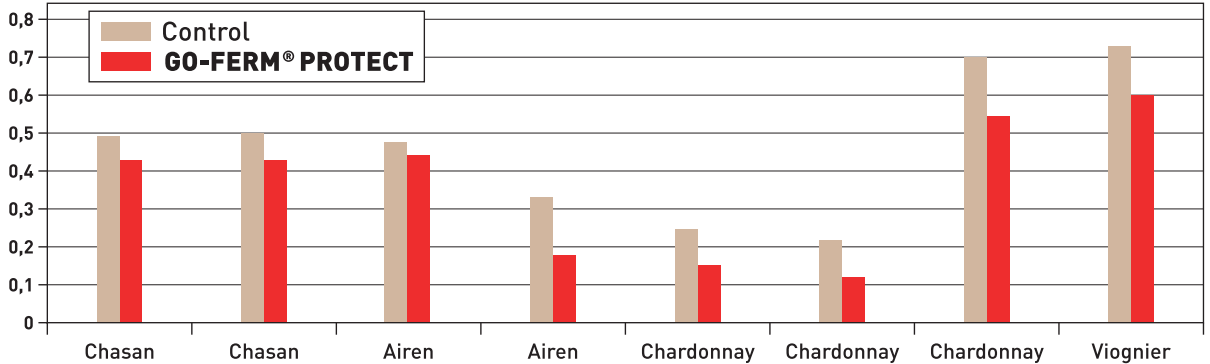


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## 2. GO-FERM<sup>®</sup> PROTECT helps to reduce VA

**CHART 2** Decrease of volatile acidity.



## 3. GO-FERM<sup>®</sup> PROTECT maintains the sensory characteristics of the wines

- Reduced production of off-flavours, including volatile acidity and sulphides.
- Reduced undesirable activity by non-selected yeast.

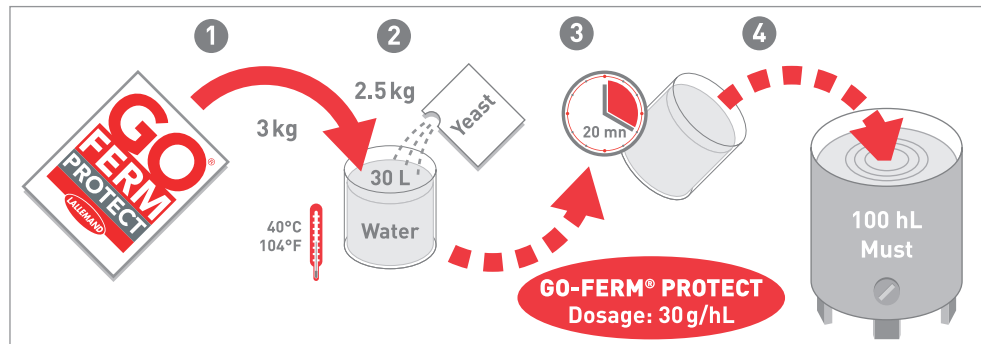
## Dosage and instructions for use

**Add GO-FERM<sup>®</sup> PROTECT directly to the rehydration water for your selected yeast.**

Recommended dosage: 30 g/hL.

**GO-FERM<sup>®</sup> PROTECT can be used:**

- With all oenological yeast strains.
- For making all red, white and rosé wines.
- For all winemaking techniques.
- For all wine styles.



## Packaging and storage

**GO-FERM<sup>®</sup> PROTECT** is a powder available in 10 kg (4 x 2.5 kg) cartons, 2.5 kg and 10 kg box.

When stored at 20°C or lower temperature in sealed packs, **GO-FERM<sup>®</sup> PROTECT** maintains its effectiveness for at least 4 years. Avoid moisture and high temperature exposure.

*The information herein is true and accurate to the best of our knowledge however this data sheet is not to be considered as a guarantee expressed or implied or as a condition of sale of this product.*

Distributor

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