



ALPHA

APPLICATION

The ALPHA 1-Step® starter kit prepares a highly effective malolactic starter culture to promote the malolactic fermentation (MLF) of most red and white wines in a wide range of winemaking conditions.

Using one of Lallemand's popular MBR® bacteria strains and an activator mix in a short acclimatization protocol, the ALPHA 1-Step starter culture wakes up the bacteria and activates their metabolism.

OENOLOGICAL AND MICROBIOLOGICAL PROPERTIES

Bacteria strain: Alpha, selected by the Institut Technique du Vin (ITV), France, from spontaneous malolactic fermentations showing good fermentation activity.

- Alcohol tolerance: up to 15%
- Good implantation
- pH tolerance >3.2
- Good activity as low as 14°C
- SO₂ tolerance: up to 50 mg/L total SO₂, 10 mg/L free SO₂
- Low production of volatile acidity
- No production of biogenic amines
- MLF kinetic: fast

INSTRUCTIONS FOR USE

Please refer to table below for liquid volumes, according to the size of kit used.

Rehydration Phase

- Mix and dissolve contents of the activator sachet in drinking water (temperature between 18° and 25°C).
- Add contents of the bacteria sachet and dissolve carefully by gentle stirring.
- Wait 20 minutes.

Acclimatization Phase

- Mix the ALPHA 1-Step preparation (activator and bacteria dis-

solved in drinking water) with wine, pH >3.5 (temperature between 17° and 25°C).

- Wait 18 to 24 hours.

Inoculation

- Inoculate the wine with the acclimated culture.
- Maintain temperature between 17° and 25°C.
- Check MLF activity (malic acid degradation) every 2 to 4 days.

LIQUID VOLUME TABLE

	Rehydration Phase	Acclimatization Phase	Inoculation
ALPHA for 25 hL KIT	Dissolve ALPHA KIT in 2.5 L of water	Mix ALPHA (2.5 L) with 2.5 L of wine	Inoculate 25 hL of wine with ALPHA culture (5 L)
ALPHA for 100 hL KIT	Dissolve ALPHA KIT in 10 L of water	Mix ALPHA (10 L) with 10 L of wine	Inoculate 100 hL of wine with ALPHA culture (20 L)
ALPHA for 500 hL KIT	Dissolve ALPHA KIT in 50 L of water	Mix ALPHA (50 L) with 50 L of wine	Inoculate 500 hL of wine with ALPHA culture (100 L)
ALPHA for 1000 hL KIT	Dissolve ALPHA Kit in 100 L of water	Mix ALPHA (100 L) with 100 L of wine	Inoculate 1000 hL of wine with ALPHA culture (200 L)

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PACKAGING

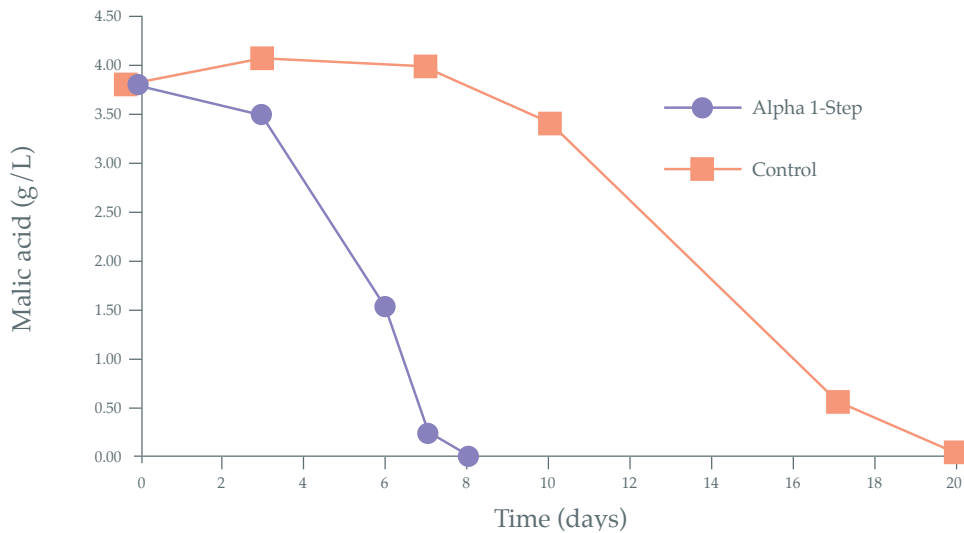
- Starter kit for inoculating 25 hL, 100 hL, 500 hL or 1000 hL of wine.
- Once opened, activator and bacteria sachets must be used immediately.
- Activator and bacteria sachets must not be used separately.

STORAGE

This product can be stored for up to 18 months at 4°C and 30 months at -18°C.

TRIAL RESULTS

Kinetics of malic acid degradation in a 2004 white wine after inoculation with ALPHA 1-Step® (pH = 3.2, alcohol = 13% volume, total SO₂ <15 ppm, temperature = 19°C)



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