

BACTERIA



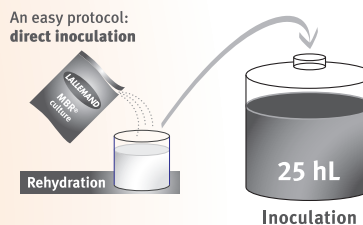
Malolactic Bacteria Selected from Nature

Lallemand offers two popular formats of freeze-dried bacteria cultures.

MBR®

The MBR® form of malolactic bacteria represents a Lallemand acclimatization process that subjects the bacteria cells to various biophysical stresses, making them better able to withstand the rigors of direct addition to wine. The conditioned MBR® bacteria that survive are robust and possess the ability to conduct reliable malolactic fermentation (MLF), even under difficult wine conditions.

Easy rehydration and inoculation protocol for MBR® bacteria cultures



1-Step®

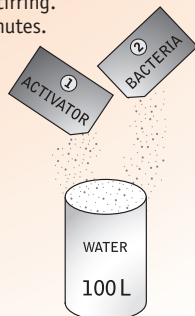
The 1-Step® starter kit contains one of our popular MBR® bacteria and an activator mix that require a short acclimatization protocol to “wake-up” the bacteria and activate their metabolism. Unlike the MBR® cultures, the 1-Step® cultures are not preconditioned at our Lallemand bacteria facility and therefore require a simple rehydration/activation step 24 hours before they can be inoculated into the wine.

Four popular MBR® bacteria – Enoferm ALPHA™, Enoferm Beta™, Lalvin VP41® and PN4™ – are now available as 1-Step® starter kit cultures. The 1-Step® cultures perform as well as or better than MBR® cultures, especially under more challenging MLF conditions, and they are recommended for restarting stuck MLF. Refer to pages 46 and 47 for more information.

Easy rehydration and inoculation protocol for 1-Step bacteria culture



Mix and dissolve content of activator sachet in 100 L of drinking water (temperature between 18° and 25°C). Add content of the bacteria sachet and dissolve carefully by gentle stirring. Wait 20 minutes.



Mix the 1-Step® preparation (activator and bacteria dissolved in 100 L of drinking water) with 100 L of wine, pH > 3,5 (temperature between 17° and 25°C). Wait 18 to 24 hours.



Transfer the preculture to 1000 hL of wine. Maintain temperature between 18° and 22°C. Check malolactic fermentation activity (malic acid degradation) every 2 to 4 days.

