



# ICV D21™

## ORIGIN AND APPLICATION

**Suited to the fermentation of warm to hot climate fruit, low in acidity. Contributes an intense fore-mouth, mid-palate tannin structure. High colour stability of the wine is also observed.**

**Lalvin ICV D21™** was isolated in 1999 from Pic Saint Loup Languedoc terroir in France, during the ICV's Natural Microflora Observatory and Conservatory program. **Lalvin ICV D21™** was selected for its ability to ferment wines high in colour stability and palate structure.

Unlike most wine yeast, **Lalvin ICV D21™** contributes to higher acidity sensations, giving liveliness to wines.

It also releases polyphenol reactive polysaccharides. The strong interactions of these polysaccharides with the floral and fruity volatile compounds ( $\beta$ -ionone, ethyl hexanoate) contributes to a more stable aromatic profile. The polysaccharides also contribute to a round palate and mid-palate intensity. These attributes tend to reduce the expression of cooked jam characters in highly mature and concentrated wines from Cabernet Sauvignon, Merlot or Shiraz.

This yeast can also reduce the expression of herbaceous characters, particularly in Cabernet Sauvignon. When blended with wines fermented with ICV D80™ and Lalvin ICV D254™, **Lalvin ICV D21™** brings fresher forward fruit sensations, with length and an intensity of flavour to the blended wine.

The fermentation kinetics of **Lalvin ICV D21™** are very strong, even in the presence of low nutrient status and high temperatures.

This yeast can also be used in ripe white grapes / barrel fermentation where the development of fresh fruit aromas, acidity and volume are desired.



## MICROBIAL AND OENOLOGICAL PROPERTIES

- Recommended for white, rosé and red wine production.
- *Saccharomyces cerevisiae var. cerevisiae*.
- Desirable fermentation temperature: 16-30°C.
- Alcohol tolerance 16% v/v \*subject to fermentation conditions.
- Low relative nitrogen demand (under controlled laboratory conditions)
- Short lag phase and moderate fermentation vigour.
- Low production of H<sub>2</sub>S under low YAN conditions.
- Moderate relative potential for SO<sub>2</sub> production. Generally considered to be neutral to MLF.
- Killer factor active.
- Low foam producer.
- Suggested varieties include Cabernet Sauvignon, Merlot, Shiraz, Barbera and Nebbiolo.



## INSTRUCTION FOR USE

### Dosage Rate:

- 25g/hL of Active Dried Yeast (this will provide an initial cell population of approximately  $5 \times 10^6$  viable cells/mL)
- 30g/hL of Go-Ferm Protect® / Go-Ferm Protect Evolution™
- Nitrogen source from the Fermaid range

### Procedure for 1000L ferment.

- 1) Add 300g of Go-Ferm Protect® / Go-Ferm Protect Evolution™ to 5L of 40-43°C clean, chlorine free water. Stir until an homogenous suspension free of lumps is achieved.
- 2) When the temperature of this suspension is between 35-40°C, sprinkle 250g of yeast slowly and evenly onto the surface of the water, whilst gently stirring. Ensure any clumps are dispersed.
- 3) Allow to stand for 20 minutes before further gently mixing.
- 4) Mix the rehydrated yeast with a little juice, gradually adjusting the yeast suspension temperature to within 5-10°C of the juice/must temperature.
- 5) Inoculate into the must.

### Further Notes

- Steps 1-5 should be completed within 30 minutes.
- It is best to limit first juice/must volume addition to one tenth the yeast suspension volume and wait 10 minutes before the addition to juice.
- To minimize cold shock, ensure temperature changes are less than 10°C.
- It is recommended that juice / must be inoculated no lower than 18°C.
- It is recommended to use complex nutrition nitrogen source, such as either **Fermaid AT™** or **Fermaid O™**.

## PACKAGING AND STORAGE

- All Active Dried Yeast should be stored dry, best practice between 4-12°C and the vacuum packaging should remain intact.

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.



WINE  
YEASTS



WINE  
BACTERIA



NUTRIENTS  
/PROTECTORS



SPECIFIC  
INACTIVATED YEASTS



ENZYMES



CHITOSAN



VINEYARD  
SOLUTIONS



LALLEMAND OENOLOGY

Original **by culture**