

Pure Fermentation
LALVIN® R 2

Saccharomyces Bayanus

LALVIN R 2 yeast is a specially selected dry active yeast that is very suitable for the fermentation of white wine must, including must with higher tenure in sugar. Particularly grape varieties for white wine are Riesling and Sauvignon Blanc, among others.

The specific advantages of LALVIN R 2 yeast:

- Very good cold fermentation characteristics
- Low nutrient requirements
- Rapid start of fermentation, yet gentle and controlled fermentation
- Low formation of undesirable fermentation by-products
- Distinct "killer characteristics" vis-à-vis native wine yeasts

Application

As a basic rule, musts should be inoculated with LALVIN R 2 yeast as early as possible. Longer maceration time favors uncontrolled multiplication of wild yeasts and undesirable bacteria. Fermentation problems are reliably prevented with the following dosage.

Application	Quantity required lb/1,000 gal (g/hl) under	
	normal fermentation conditions	difficult fermentation conditions
White wine must	0.8 – 1.6 (10 – 20)	2.5 – 3.3 (30 – 40)

The quantities stated are guide values. They should be adapted to the individual requirements depending on the health of the grapes, the temperature, and the batch size etc. For large batches, adequate cooling must be ensured.

LALVIN R 2 yeast is best stirred into a 10:1 must/water mixture at 95 – 104 °F (35 – 40 °C), stirred again after approximately 20 minutes and added to the must.

The optimum fermentation temperature is between 59 – 77 °F (15 – 25 °C). The minimum starting temperature is 55.4 °F (13 °C). The fermentation temperature should not exceed 86 °F (30 °C). Lower temperatures generally require higher dosage.

The addition of 0.005 lb SIHA® Vitamin B₁ yeast nutrient per 1,000 gal of must (600 mg per 1,000 l) creates even better multiplication, fermentation and metabolism conditions. For promoting fermentation, we recommend adding an additional dose of 0.8 lb/1,000 gal (10 g/hl) SIHA Fermentation Salt yeast nutrient.

Under these conditions it is beneficial to accustom the yeast to the fermentation conditions. This is best achieved by adding the quantity of yeast required for the total quantity of wine to approximately 10% of the total product to be fermented and fermenting until approximately half the sugar present is used up. This mixture is then added to the remaining 90% of the wine for final fermentation. Yeasts adapted in this way usually start fermenting more quickly and have a lower tendency to die off than if they are added directly to the total quantity.

Product Characteristics

LALVIN R 2 yeast is a yeast that was selected specially for difficult white wine must. Speedy fermentation notwithstanding low nutrient content and high tenure in sugar of the must is not a problem for this yeast.

LALVIN R 2 yeast shows an advantageous fermentation curve with high final degree of fermentation. Wild yeasts and undesirable bacteria are suppressed. LALVIN R 2 yeast generates no undesirable fermentation by-products such as SO₂, H₂S, acetaldehyde, pyruvate, α-ketoglutaric acid, volatile acid, or ester.

LALVIN R 2 yeast can produce up to 14% alcohol by volume. The practical alcohol yield is approximately 47% of the sugar content. For each lb (kg) of sugar fermented, approx. 247 kJ (546 kJ)/59 kcal (130 kcal) of heat is released.

Safety

No safety information has to be provided for LALVIN R 2 yeast, since the product is used directly for food production. There are no known risks to humans or the environment during storage, handling and transport of the product.

Storage

LALVIN R 2 yeast is packed in airtight multi-layer aluminum film in an inert gas atmosphere. The integrity of the vacuum pack is easy to monitor.

In undamaged packaging, LALVIN R 2 yeast can be stored for four years 39 to 50 °F (4 – 10 °C). Short-term storage at 68 °F (20 °C) is acceptable.

Once a package has been opened, it should be used up as soon as possible.

Delivery Information

LALVIN R 2 yeast is sold under article no. 93.312 and is available in the following package sizes:

1.1 lb (500 g)	aluminum sandwich foil block pack
20 x 1.1 lb (500 g)	aluminum sandwich foil block pack in carton

Certified Quality

During the production process, LALVIN R 2 yeast is continuously monitored to ensure consistently high quality.

These inspections cover technical function criteria as well as conformance with the relevant laws governing the production and sale of foodstuffs. Strict controls are carried out immediately before as well as during final packaging.

LALVIN R 2 yeast conforms to the purity regulations of the International OIV Code for wine treatment products and to the regulations of the German Wine Ordinance. Please pay attention to the national laws.

LALVIN® is a registered trademark of Lallemand Inc.

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