

## Pure Fermentation

### LALVIN® RA 17

#### *Saccharomyces Cerevisiae*

**LALVIN RA 17 yeast is a specially selected dry active yeast, which is particularly beneficial for the fermentation of red wine must and red wine mash. The special advantages are color extraction and rapid main fermentation. LALVIN RA 17 yeast is particularly suitable for spicy, complex red wines (Pinot Noir, Gamay).**

The specific advantages of LALVIN RA 17 yeast:

- Wide temperature range
- Average nutrient requirements
- Quickly displaces wild yeasts and bacteria
- Rapid start of fermentation and main fermentation
- Low formation of undesirable fermentation by-products

#### Application

As a basic rule, musts should be inoculated with LALVIN RA 17 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
Red wine mash	1.2 – 2.1 (15 – 25)	2.5 – 3.3 (30 – 40)
Red wine must	1.2 – 1.6 (15 – 20)	2.5 – 2.9 (30 – 35)

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 RA 17 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 60.8 – 82.4 °F (16 – 28 °C). The minimum starting temperature is 59 °F (15 °C). LALVIN RA 17 yeast should only be added to heated must or mash after recooling or rather cooling to 68 °F (20 °C).

The addition of 0.005 lb SIHA® Vitamin B<sub>1</sub> yeast nutrient per 1,000 gal of must (600 mg per 1,000 l) creates even better multiplication, fermentation and metabolism conditions. For final fermentation of stuck wines, we recommend adding an additional dose of 1.3 – 1.7 lb/1,000 gal (15 – 20 g/hl) SIHA PROFERM™ Plus combined 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

Selection over several years enabled us to develop the LALVIN RA 17 yeast, which is highly suitable for producing spicy and complex Burgundy wine. It also offers a wide temperature range for wine production. This very positive yeast quality is continuously reinforced and secured through further selection.

LALVIN RA 17 yeast shows an advantageous fermentation curve with high final degree of fermentation. Wild yeasts and undesirable bacteria are suppressed. LALVIN RA 17 yeast generates no undesirable fermentation by-products such as SO<sub>2</sub>, H<sub>2</sub>S, acetaldehyde, pyruvate, α-ketoglutaric acid, volatile acid, or ester.

LALVIN RA 17 yeast can produce up to 15% 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 RA 17 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 RA 17 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 RA 17 yeast can be stored for four years at 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 RA 17 yeast is sold under article no. 93.321 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 RA 17 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 RA 17 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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12-2016

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