

Pure Fermentation
LALVIN® D 47 YSEO

Saccharomyces Cerevisiae – Based on the Yeast Security & Sensory Optimization Process (YSEO)

LALVIN D 47 YSEO yeast from Eaton’s Begerow Product Line is a specially selected dry active yeast that is used for the fermentation of white must. The special advantages of the YSEO production process include improved flavor (spiciness, tropical fruit flavors) and pronounced fruit aromas. Particularly suitable for Mediterranean-style white wine grape varieties such as Chardonnay, Pinot Blanc, Ugni Blanc.

The specific advantages of LALVIN D 47 YSEO yeast:

- Low nutrient requirements
- Formation of delicate fruit flavors
- Rapid start of fermentation and main fermentation

Under difficult conditions:

- Pronounced fruit flavors

Application

As a basic rule, musts should be inoculated with LALVIN D 47 YSEO 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	1.2 – 1.6 (15 – 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 D 47 YSEO yeast is best stirred into a 10:1 must/water mixture at 95 – 104 °F (35 – 40 °C), stirred again after approximately 15 minutes and added to the must.

The optimum fermentation temperature is between 62.6 – 68 °F (17 – 20 °C). The minimum starting temperature is 59 °F (15 °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 1.7 – 2.5 lb/1,000 gal (20 – 30 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

The YSEO production process is a new dry active yeast production technique. LALVIN D 47 YSEO yeast offers enhanced process parameters and is produced based on a more specific yeast strain.

LALVIN D 47 YSEO yeast is a yeast that was selected specially for full, Mediterranean-style white wine types. It leads to aromatic wines with fruity bouquet.

LALVIN D 47 YSEO yeast shows an advantageous fermentation curve with high final degree of fermentation.

LALVIN D 47 YSEO 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 D 47 YSEO 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 D 47 YSEO 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 D 47 YSEO 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 D 47 YSEO yeast is sold under article no. 93.311 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

HS Customs Tariff: 2102 10 90

Certified Quality

During the production process, LALVIN D 47 YSEO 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 D 47 YSEO 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.

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For more information, please e-mail us at filtration@eaton.com or visit us online at eaton.com/filtration for a complete list of Eaton's filtration products.

Not all products in Eaton's Begerow Product Line are available in all regions. Please contact your local Eaton Filtration office to determine availability.

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