

## Pure Fermentation LALVIN® 2323 YSEO

### *Saccharomyces Cerevisiae*

LALVIN 2323 YSEO yeast from Eaton's Begerow Product Line 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, production of aroma that reminds of figs and dats. A rapid main fermentation and high-end fermentation rate are further advantages of the yeast strain.

The YSEO production process helps to reduce the production of sulfur compounds especially during the fermentation of extreme different grape qualities.

LALVIN 2323 YSEO yeast is particularly suitable for voluminous red wines with southern French style (Cabernet Sauvignon, Cabernet Franc, Pinot Noir).

The specific advantages of LALVIN 2323 YSEO yeast:

- High nutrient requirements
- Good temperature and alcohol tolerance
- Quickly displaces wild yeasts and bacteria thanks to "killer characteristics"
- 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 2323 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 dosage indicated in the table.

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 2323 YSEO 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.

Application	Quantity required lb/1,000 gal (g/hl) under	
	normal fermentation	difficult conditions
Red wine mash	1.6 – 2.5 (20 – 30)	2.5 – 3.3 (30 – 40)
Red wine must	1.6 – 2.1 (20 – 25)	2.5 – 2.9 (30 – 35)

The optimum fermentation temperature is between 71.6 – 82.4 °F (22 – 28 °C). The minimum starting temperature is 64.4 °F (18 °C). LALVIN 2323 YSEO 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 2.5 lb /1,000 gal (30 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 reduce the color adsorption of the yeast and therefore to achieve better color yield. This very positive yeast quality is continuously reinforced and secured through further selection. Due to increased polysaccharide formation, wines fermented with LALVIN 2323 YSEO yeast are particularly harmonious and aromatic with high "mouthfeel".

LALVIN 2323 YSEO yeast shows an advantageous fermentation curve with high final degree of fermentation. Wild yeasts and undesirable bacteria are suppressed. LALVIN 2323 YSEO 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 2323 YSEO 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 2323 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 2323 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 2323 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 2323 YSEO yeast is sold under article no. 93.324 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 2323 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 2323 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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#### North America - HQ

44 Apple Street,  
Tinton Falls, NJ 07724  
Toll Free: 800 656-3344  
(North America Only)  
Voice: +1 732 212-4700

#### Europe/Africa/Middle East

Auf der Heide 2  
53947 Nettersheim, Germany  
Voice: +49 2486 809-0

#### Internormen Product Line

Friedensstraße 41  
68804 Altlussheim, Germany  
Voice: +49 6205 2094-0

#### Begerow Product Line

An den Nahewiesen 24  
55450 Langenlonsheim, Germany  
Voice: +49 6704 204-0

#### Brazil

Av. Julia Gaioli, 474 - Bonsucesso  
07251-500 - Guarulhos  
Brazil  
Voice: +55 11 2465 8822

#### China

No. 7 Lane 280 Linhong Road,  
Changning District,  
Shanghai 200335, China  
Voice: +86 21 5200 0422

#### Singapore

4 Loyang Lane #04-01/02  
Singapore 508914  
Voice: +65 6825 1668

For more information, please e-mail us at [filtration@eaton.com](mailto:filtration@eaton.com) or visit us online at [eaton.com/filtration](http://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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