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ES 181

YEAST FOR HIGH-QUALITY, AROMATIC WHITE WINES

ES181 is a strain selected for the production of white wines characterized by intense aromatic expression.

SENSORY CHARACTERISTICS

ES 181 is a yeast recommended for the production of white wines noted for strong varietal aroma expression.

Excellent for fermentations at low temperatures and in hyper-reductive conditions.

ES 181 has intense β-lyase activity which makes it an ideal strain for fermenting varieties that are rich in sulfurous aromatic precursors such as Sauvignon Blanc and Riesling.

At low temperatures and with proper nutrition, it produces white and tropical fruit aromas that increase aromatic complexity without overpowering varietal character.

On the palate, wines taste soft and well balanced.

MICROBIOLOGICAL CHARACTERISTICS

Fermentation temperature 10 - 20°C (50-68°F)

Lag phase short

Fermentation speed high, vigorous strain not recommend for the fermentation in barrel

Alcohol tolerance ≤ 16.5% v/v Killer factor killer

Resistance to free SO₂ high (40 mg/L free SO₂)

ENOLOGICAL CHARACTERISTICS

Nitrogen needs low

Oxygen needs low-medium

 $\begin{array}{lll} \mbox{Volatile acidity production} & \mbox{low} \\ \mbox{H}_2\mbox{S production} & \mbox{low} \\ \mbox{SO}_2\mbox{ production} & \mbox{low} \\ \mbox{Glycerol production} & \mbox{medium} \end{array}$

Compatibility with malolactic fermentation: low, it delays the start of MLF.

APPLICATIONS

White wines with varietal character
White wines fermented at lower temperatures
White wines fermented in hyper-reductive conditions
White wines to be aged in barrel
Late harvest wines



Saccharomyces cerevisiae x bayanus

ES 181



MAXIMIZING QUALITY

To enhance the production of aromatic compounds, it is recommended to ferment **ES181** under hyper-reductive conditions, at temperatures lower than 15°C (59°F) and in juices with turbidities lower than 70 NTU. These are difficult conditions for yeast and can lead to sluggish or stuck fermentations. It is important to provide a good source of amino acids and survival factors. A complex nutrient such as **Nutriferm Arom** and **Nutriferm Arom Plus** should be added at inoculation. **Nutriferm Arom** and **Nutriferm Arom Plus** provide sterols and unsaturated fatty acids useful for maintaining effective cellular metabolism in the presence of alcohol and also amino acids that act as precursors for aromatic compound synthesis. At 1/3 sugar depletion, the addition of **Nutriferm Advance** ensures a clean and complete fermentation and helps prevent the formation of reductive compounds.

DOSAGE

20-40 g/hL (1.67 - 3.3 lb/1000 gal)

The highest dosages are recommended in case of rotten grapes, high sugar content and difficult microbiological conditions.

INSTRUCTIONS FOR USE

- Suspend dry yeast in 10 times its weight of clean, warm (35-38°C or 95-100°F) water. Stir gently.
- Let suspension stand for 20 minutes, then stir gently again.
- Add suspension to juice when beginning to fill the fermentation tank. The difference in temperature between yeast suspension and juice should not exceed 10°C (18°F).
- Homogenize by pump-over or mixing inoculated juice.

Working to the above-mentioned times and methods ensures maximum activity of re-hydrated yeast.

PACKAGING AND STORAGE

Vacuum packed in 0.5 and 10 kg

Sealed package: store in a cool (preferably 5-15°C or 41-59°F), dry place. Opened package: carefully reseal and store as indicated above; use quickly.

Product approved for winemaking by the TTB.

Legal Limit: N/A

Product is in compliance with the Codex Œnologique International.

Product approved for winemaking in accordance with Reg. (EC) N. 606/2009

Contains E 491 Sorbitan monostearate.

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