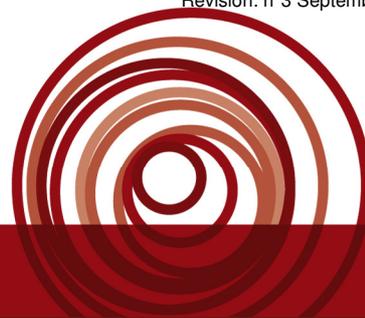




Saccharomyces cerevisiae

ES 488



enartis FERM

RED WINES TO BE AGED

ES 488 is a yeast for the production of high quality red wines made from well-ripened grapes to enhance varietal expression and flavor intensity.

SENSORY CHARACTERISTICS

ES 488 is a strain recommended for the production of "new world" style red wines destined for ageing.

It enhances and intensifies the varietal characteristics of very ripe red grapes. In particular, it enhances red fruit aromas (raspberry, cranberry, red currant and kirsch cherry) and increases complexity by adding mineral, spicy (liquorice) and floral (violet) notes. Resulting wines are already aromatically expressive at the end of alcoholic fermentation.

ES 488 also helps mask herbaceous aromas found in grape varieties such as Cabernet Franc and Cabernet Sauvignon.

It has a great extraction capacity, producing wines with notable structure and color stability.

In wines with high alcohol content, it helps reduce burning sensations.

MICROBIOLOGICAL CHARACTERISTICS

| | |
|--------------------------|---------------------|
| Fermentation temperature | 15 - 28°C (59-82°F) |
| Lag phase | short |
| Fermentation speed | medium |
| Alcohol tolerance | ≤ 16% v/v |
| Killer factor | killer |

ENOLOGICAL CHARACTERISTICS

| | |
|-----------------------------|------------|
| Nitrogen needs | high |
| Oxygen needs | high |
| Volatile acidity production | low |
| H ₂ S production | medium-low |
| SO ₂ production | low |
| Foam production | low |

Compatibility with malolactic fermentation: high, it favors start of MLF

Wines aromatically opened already at the end of the alcoholic fermentation.

Low adsorption of color on the yeast cell wall.

APPLICATIONS

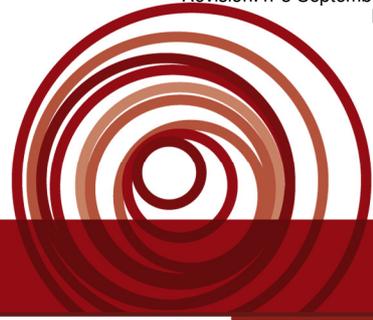
Red wine obtained from well-ripened grapes and destined for medium-to-long ageing.

Syrah, Cabernet Sauvignon, Cabernet Franc, Merlot, Malbec, Tempranillo, Sangiovese, Zinfandel, Barbera, Dolcetto.



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MAXIMIZING QUALITY

To enhance fruit character, **Nutriferrom Arom** or **Nutriferrom Arom Plus** can be added as a nutrient source at inoculation. **Nutriferrom Arom** and **Nutriferrom Arom Plus** supply specific amino acids that **ES 488** can use to synthesize aromatic compounds. An alternative is to add **Enartis Tan Red Fruit** during fermentation. This tannin contains aromatic precursors responsible for the production of cherry and fresh fruit notes which are released by hydrolytic enzymes produced by **ES 488**. If following this second strategy, a complex nutrient such as **Nutriferrom Energy** should be added at inoculation as well as **Nutriferrom Advance** at 1/3 sugar depletion in order to ensure a clean and complete fermentation.

Enartis Pro Tinto can be used during the fermentation to stabilize aromas and balance tannins. Resulting wines have more intense and persistent aromas, a smoother mouthfeel and are more drinkable at an earlier age.

DOSAGE

20-40 g/hL (1.67 – 3.3 lb/1000 gal)

The highest dosages are recommended in cases 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: keep product in a cool (5-15 °C or 41-59 °F), dry place.

Opened package: carefully reseal package 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