



ACTIVE
DRY YEAST

SafCEno™ Amplify TD-70

TO ENHANCE AROMATIC COMPLEXITY AND MOUTHFEEL

Ingredients:

Yeast (*Torulaspora delbrueckii*), Emulsifier: Sorbitan monostearate (E/INS 491).

Origin:

The selection of **SafCEno™ Amplify TD-70** is the result of the screening of several hundred microorganisms from different wine-growing regions across three different vintages. **SafCEno™ Amplify TD-70** was isolated in France in a Bordeaux vineyard.

CEnological characteristics:

Used in sequential inoculation with a selected *Saccharomyces cerevisiae*, **SafCEno™ Amplify TD-70** will enhance the aromatic complexity and mouthfeel of the wine without altering its typicity and distinctive characteristics.

This microbial association produces a controlled complex ecosystem in the must and during fermentation, which ensures complete alcoholic fermentation.

Pre-fermentative and fermentative abilities

- Alcohol tolerance observed: up to 13% vol. We recommend sequential inoculation with a selected *Saccharomyces cerevisiae* to ensure healthy fermentation progress, clean aroma expression, and clean fermentation finish in all conditions.
- Large spectrum of fermentation temperature tolerance: 13 to 25°C (53.6 – 78.8°F).
- Copper tolerance observed: up to 9 mg/L.
- SO₂ tolerance observed: up to 3 g/hL (30 ppm of TSO₂).
- Medium nitrogen requirements: ratio YAN (mg/L) / Initial sugars (g/L) ≥ 0.8 – 0.9
- High colonization and maintenance of the population in the musts and during alcoholic fermentation.
- Very low production of undesirable compounds (volatile acidity, SO₂ and H₂S).

Recommended usage:

SafCEno™ Amplify TD-70 is suited for the fermentation of all types of red, white, and rosé wines. This strain was selected for its high power of colonization of grape musts, the maintenance of its population during alcoholic fermentation, and its tolerance to SO₂, copper, and alcohol.

It is recommended for:

- Full-bodied and fruity red wines.
- Enhanced expression of varietal characters of white and rosé wines.
- Higher aromatic complexity and intensity.



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Trials:

A trial was conducted on Chardonnay grapes from the Loire Valley (vintage 2024). The grapes were harvested by hand, then destemmed, pressed, and the juice clarified with enzymes. A 3 g/hL sulfite addition was made at the start of fermentation (day 0).

Fermentation nutrition was adjusted to reach a nitrogen-to-sugar ratio of 0.8 mg/g, with DAP (20 g/hL) and SpringFerm™ Equilibre (20 g/hL) both added on day 0.

The study compared five *Torulaspora delbrueckii* strains as candidates (Td1 to Td4, and **SafCeno™ Amplify TD-70**), two commercial *T. delbrueckii* strains, and one control without *T. delbrueckii*.

The yeast inoculation followed a two-step strategy:

- Day 0: each modality (except the control) was inoculated with its respective *T. delbrueckii* strain at 20 g/hL, with fermentation starting at 17°C.
- Day 3: all modalities were inoculated with SafCeno™ VR44 (20 g/hL) to complete fermentation.

For the control, no *T. delbrueckii* was used; it received only SafCeno™ VR44 (20 g/hL) on day 0.

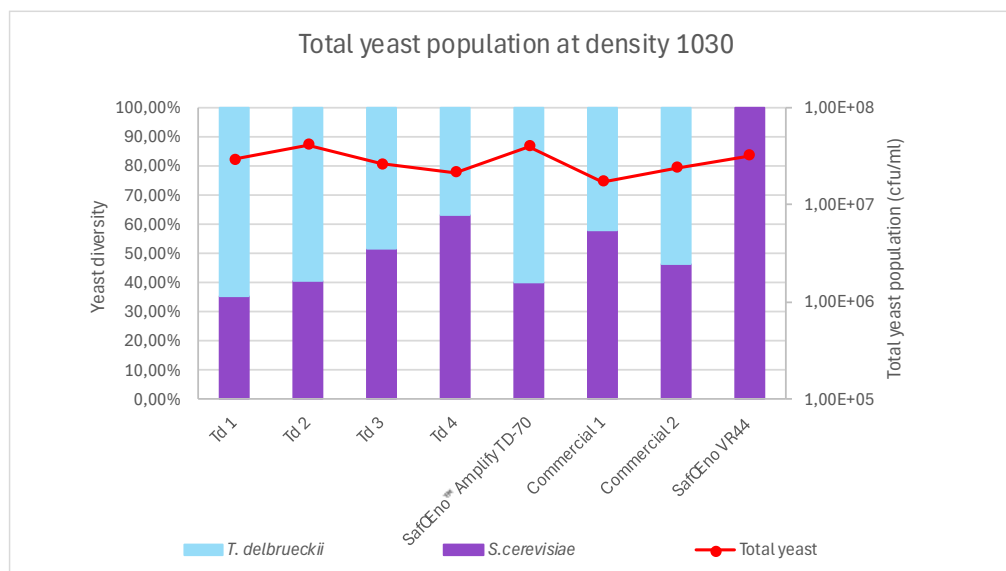
Chemical characteristics of the must: Sugars: 210 g/L ; pH: 3.04 ; Total acidity: 5,76 g/L H₂SO₄ ; Titrable acidity: 8,7 g/L tartaric acid ; YAN: 82 mg/L

The alcoholic fermentation, ensured by the combination of **SafCeno™ Amplify TD-70** and SafCeno™ VR44, was completed in 28 days.

The control SafCeno™ VR44 modality completed fermentation in 22 days.

Chemical analyses show significantly less volatile acidity production for the **SafCeno™ Amplify TD-70** and SafCeno™ VR44 modality.

Figure 1: Monitoring of the total yeast population at density 1030 during alcoholic fermentation



The monitoring of the populations of different strains of *T. delbrueckii* shows significant differences and a clear cofermentation with *S. cerevisiae*.

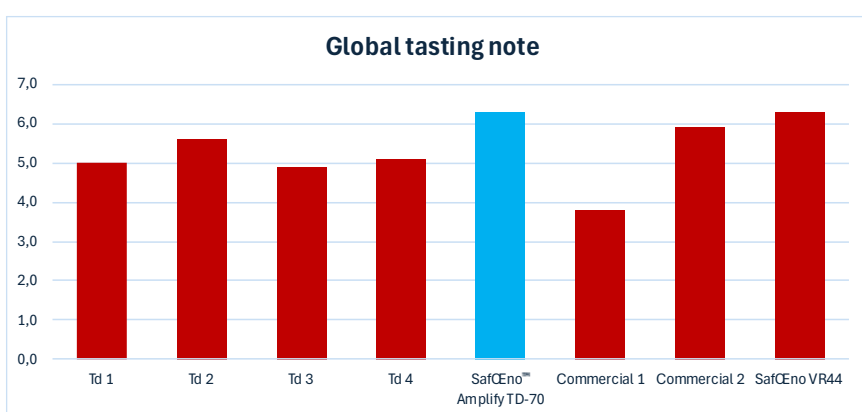
The **SafCeno™ Amplify TD-70** strain represents 60% of the total yeast population at density 1030.



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Figure 2: Tasting preference evaluation



The aromatic profile of the wine fermented with **SafCEno™ Amplify TD-70** + SafCEno™ VR44 yeast has the highest preference score compared to other *Torulaspora delbrueckii* strains fermented with SafCEno™ VR44.

The profile of the wine obtained with cofermentation of **SafCEno™ Amplify TD-70** + SafCEno™ VR44 yeast differs from that fermented with only SafCEno™ VR44 yeast by more complexity (aromas of yellow fruits, peaches, apricot) and more mouthfeel.

Directions of use:

With prior rehydration: gently pour the desired quantity of **SafCEno™ Amplify TD-70** into 10 times its weight of tap water **between 25°C (77°F) and 30°C (86°F)**. Gently stir to complete yeast rehydration and prevent the formation of lumps. Leave to rest for 20 minutes, then incorporate the yeast starter into the fermentation tank with homogenization.

Sequential association of yeasts:

Add 20 g/hL of **SafCEno™ Amplify TD-70** to the must. For red wines, with higher initial indigenous microbial charge, 30 g/hL of **SafCEno™ Amplify TD-70** leads to higher performance.

After 24 - 72 hours, add 20 g/hL of your selected *S. cerevisiae*. Fermentation activity is sometimes observed only after the *S. cerevisiae* inoculation. Nonetheless, **SafCEno™ Amplify TD-70** has demonstrated the ability to persistently contribute to the alcoholic fermentation, reliably enhancing the organoleptic properties of the wine.

For sequential inoculations, we recommend providing no less than 0.9 mg/L YAN for each g/L of sugar in the must to ensure that both the *Torulaspora* and *Saccharomyces* have enough nitrogen to grow and ferment in the best conditions.

Dosage:

Recommended dose: 20 g/hL (24.3 oz/1000 gal)

Packaging:

Cardboard box of 20 vacuum-packed sachets of 500g / 1.1 lb each (Full box net weight: 10 kg / 22.05 lb).



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Storage and compliance:

Store or transport in a dry place, protected from direct sunlight, **at a temperature between 4 and 10°C (39.2 to 50°F).**

Shelf life: 2 years. Refer to the "best before" date printed on the sachet. Opened sachets must be sealed and stored between 4 and 10°C and used within 7 days of opening. Do not use soft or damaged sachets.

Fermentis guarantees the product complies with International Œnological Codex specifications until its Best Before End Date in the storage conditions mentioned above.

Each Fermentis yeast is developed under a specific production scheme and benefits from the know-how of Lesaffre, a world leader in yeast manufacturing. This guarantees the highest microbiological purity and maximum fermentation activity.

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