NUTRIENT

Flor'Protect®

ESTABLE IN ORGANIC



Flor'Protect® detoxifies the medium by removing negative compounds for yeasts and bacteria such as inhibitors fatty acids. Recommended in case of sluggish fermentation and fermentation restart.



PRODUCT CHARACTERISTICS

- Formulation: 100% yeast hulls (Saccharomyces cerevisiæ) or yeast cellular envelopes.
- Enological benefits: Throughout the alcoholic fermentation, especially under difficult conditions (high ABV, high temperatures, nitrogen deficiency), yeasts produce inhibitory compounds (medium chain fatty acids) which accumulate in the medium. Like pesticide residues, these molecules inhibit the yeasts' fermentary capacity and can lead to stuck fermentations. These compounds also inhibit malolactic bacteria and can cause complications for the malolactic fermentation.

Flor'Protect® **detoxifies** the medium using the adsorbent properties of **yeast hulls** to bind these inhibitors, thus improving yeast and malolactic bacteria activity.

Flor'Protect® can also be used for preventive treatment, to avoid sluggish fermentations (and the knock-on effects on the malolactic fermentation), or for curative purposes, it is recommended to detoxify the wine prior to the fermentation restart operations.



DIRECTIONS FOR USE

- Sprinkle Flor'Protect® progessively in 20 times its weight in water while continually stirring in order to avoid clumps. Add to the tank and homogenise with a pump-over.
- ◆ Dosage: 20 g/hL.

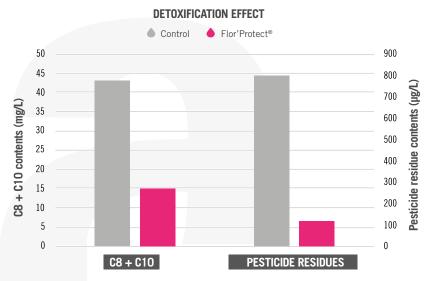
Preventive treatment: 20 to 30 g/hL.

Curative treatment: 30 to 40 g/hL (please refer to the fermentation restart protocol available online).

Maximum legal dosage (EU regulation): 40 g/hL.



TRIAL RESULTS



Flor'Protect® detoxifies the environment by fixing the inhibitory compounds of yeasts and lactic bacteria.



SPECIFICATIONS

PHYSICAL

• Appearance & color: Beige powder

• Solubility: < 10 %

MIROBIOLOGICAL

• Revivable yeasts: $\leq 10^2 \text{ UFC/g}$

• **Mould:** < 10³ UFC/g

• Lactic bacteria: < 103 UFC/g • Acetic bacteria: < 10³ UFC/g

• Salmonella: Absence/25g • Escherichia coli: Absence/1g

• Staphylococci: Absence/1g

• Coliforms: < 10² UFC/g

CHIMICAL

• **Dry extract** : ≥ 94 % m/m • Carbohydrate: > 40 % m/m

Glucans + Mannans : > 60 % total carbohydrate

LIMITS

• **Lead**: < 2 mg/kg • Mercury: < 1 mg/kg • Arsenic: < 3 mg/kg • Cadmium: < 1 mg/kg



PACKAGING & CONSERVATION

- Bags of 1 kg (in 10 kg box) and bags of 5 kg (in 15 kg box).
- Store in its original packaging hermetically sealed, in a cool, clean and dry place without odors. Respect the optimal date of use written on packaging. Use quickly after opening.