





STEP	PRODUCT	DOSE (g/hl)	Composition	Properties
Harvest Sulfiting Addition of tannins (o)*	EFFERBAKTOL VITANIL® B	3 g/hl 5 g/hl	Potassium metabisulfite (effervescent) Galic Tannins	Limit the time between picking and treatment of the harvest. Homogeneous sulfiting in the skip (effervescence). Limits the oxidation of the must. Powerful antioxidant for white and rosé wines.
Reception Direct pressing				No maceration to avoid alterations & diffusion of off flavord in the juice
Sulfiting	SO ₂	7-10 g/hl	Potassium bisulfite	Antioxidant, preservative.
Cold static settling Enzymatic treatment (o)*	Cold treatment	8-12°C < 100 NTU		
Fining	VIAZYM® FLUX	3-4 ml/hl	Glucanases + pectinases	Specific enzymes breaking down pectins + glucans and promoting clarification.
	CARBINE T (o)*	20 - 100 g/hl	Deodorizing charcoal	Action on moldy earthy vegetal notes (powdery mildew / Botrytis / geosmine).
	POLYGREEN	60-80 g/hl	Pea, PVPP, bentonite, cellulose	Removal of oxidized and oxidisable polyphenols.
	ELECTRA®	30-40 g/hl	Bentonite	Removal of the polyphenol oxidases (PPOs).
Flotation : to be favored when possible	VIAZYM® FLUX	3-4 ml/hl	Glucanases +	Specific enzymes breaking down pectins + glucans and
Enzymatic treatment (o)* Fining	CAPTIVA (o)*	40 - 60	<i>pectinases</i> Deodorizing	promoting clarification. Action on moldy earthy vegetal notes (powdery mildew /
	ELECTRA®	g/hl 30 g/hl	charcoal Bentonite	Botrytis / geosmine). Removal of the polyphenol oxidases (PPOs).
	KTS® FLOT	5-15 cl/hl	Vegetal proteins & Chitosan	Great results on compaction and clarification (long-term effect).
AF Yeasting	SO® DELIGHT	20 g/hl	LSA	Aromatic yeast with great fermentation capacities. T° AF = 17°C / 20°C when d<1010
Nutrition	NUTRICELL® INITIAL	20 g/hl	Yeast derivatives	Yeast starter. Sterols, amino acids, vitamins, minerals and survival factors. Difficult AF conditions. To be added to the yeast rehydration water.
Enf of AF d<1000		Full tanks		Avoid the oxidation of wines.
Wine fining	KTS® FLOT	5 cl/hl	Vegetal proteins & Chitosan	Quick clean-up.
Bottling Addition of tannins	VITANIL® B	10-15 g/hl	Galic Tannins	Powerful antioxidant for white and rosé wines.

(o)* : addition of oenological product is optionnal, depending on the matrix and targeted wine.







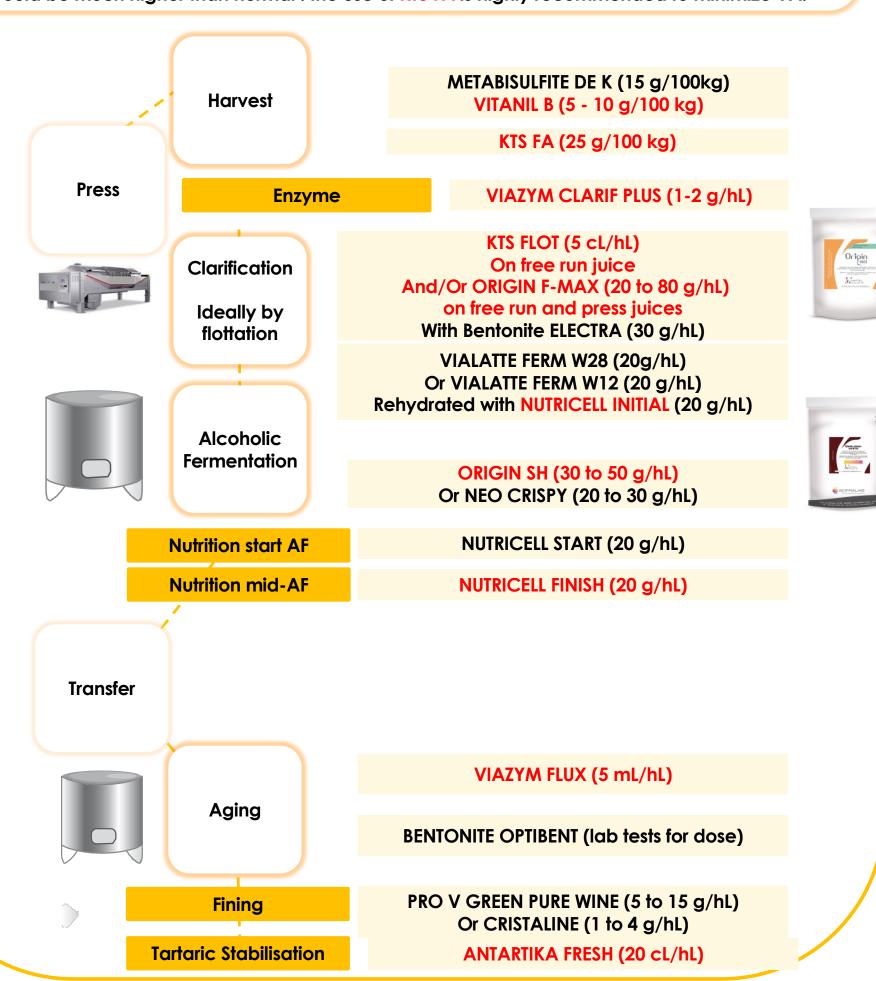




A grape-rotten and ohter possible microbiological deviations grape harvest presents risks of **nitrogen** and vitamin deficiencies, organoleptic deviations due to botrytis or moldy-earthy (Gmt) tastes, oxidation or difficult filtration.

Due to heavy rains the wine may be diluted and have a lack of body and volume

Botrytis may sometimes be combined with Acid Rot issues (Drosophila Suzukii), then the volatile acidity could be much higher than normal: the use of KTS FA is highly recommended to minimize VA.







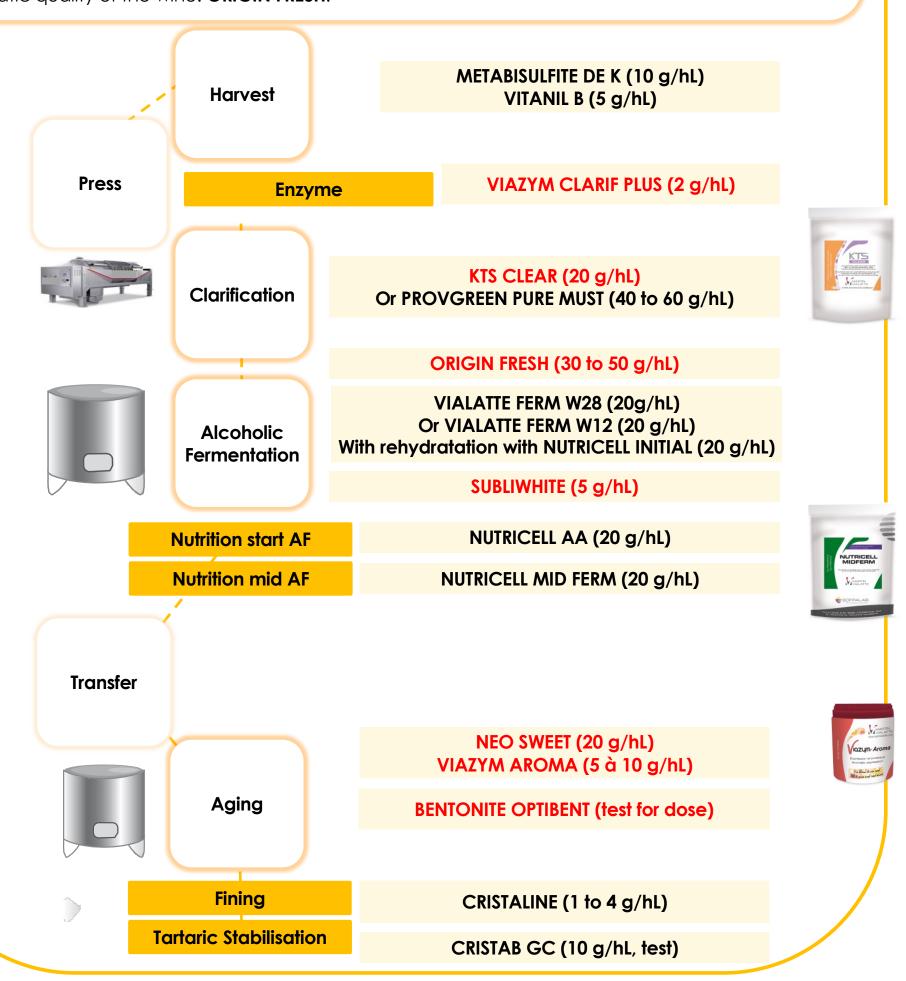




The mildew will have a **negative impact on the flavors** from 5% of contaminated grapes, the wine will be rejected by the consumer from 15%. **Vegetable flavors** are developed, a decrease in fruity, an **increase in the hardness of tannins**. The work on must is essential to clean it of its bad taste, and make a **strong and fast clarification** (sought turbidity: 50 NTU).

To control oïdum and mildew mosaic it is recommended to treat copper lately. However it is known copper implies negative effects on oxidation and aromatic losses (thiols).

A new oenological solution now makes it possible to reconcile protection of the vineyard with the aromatic quality of the wine: **ORIGIN FRESH**.









STEP	PRODUCT	DOSE (g/hL)	COMPOSITION	PROPERTIES
TANK FILLING				
Tank inerting	CO ₂	Gas mat 40 cm	CO ₂ (g)	Protection / oxidation
Sulfites addition	SO ₂	5-6 g/hL	Potassium Bisulfite	Antioxidant and conservative
Tannins addition	TANIXEL	30-50 g/hL	Chestnut tree tannin	Powerful antioxidant. Reacts with PPO
Enzyme addition	VIAZYM EXTRACT	2 g/hL	Extraction enzyme	Fast polyphenol extraction to limit vatting time. (To be added separately from tannins & sulfite)
AF Yeasting	VIALATTE FERM R71	20 g/hL	ADY	Specific yeast (important production of esters), strong yeast with good fermentative capacity. Objective: secure AF by ensuring fast and complete AF. T° AF = 23°C
Nutrition	NUTRICELL INITIAL	20 g/hL	Yeasts derivatives	Yeast nutrient. Sterols, amino acids, vitamins, minerals and survival factor. AF difficult conditions. <u>To be added during preparation of yeast inoculation</u> Objective: control AF
Fining (o)*	CARBINE T (0)*	40-60 g/hL Contact: 48 h	Deodorizer charcoal	On musts and VNEF. Action on vegetal, moldy, earthy notes (oïdium / botrytis / Geosmine). 48-72h to avoid release Possibility of microoxygenation during 2-3 days
Oxygenation (density-30 points)	Cliqueur	8-10 mg/L	O ₂	Possibility of fillerooxygenation during 2-3 days
End AF	CO ₂	Once a day	CO ₂ (g)	Avoid acetic acid formation
Vatting		6-8 days max		Limit maceration
Devatting	Aeration			
Fining Centrifugation (when possible)	KTS FLOT	10-15 cL/hL Turbidity < 300 NTU	Pea protein + Chitosan	Wine fining
MLF Inoculation	REFLEX MALO HD	18°C <t°< 20°c<br="">Kit dose / hL</t°<>	Oenococcus oeni	Strain for wine with difficult conditions (low pH, high Alcoholic degree)
Enzyme addition (o)*	VIAZYM FLUX	2mL/hL	Glucanases +	Specific enzymes. Degrade pectins and glucanes (produced by Botrytis)
RACKING			pectinases	and favor clarification
Sulfite addition	SO ₂	Active SO ₂ = 0,6 mg/L		Ensure wine stability with respect to microorganisms

(o)*: optional addition of enological product, depending on product objective

