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ARVES⁻



NEWS 2025

New products

TECHNICAL ARTICLE

Natjja Alma™ IOC Smoozberry™

INSIGHTS

New research project: Bioprotection Synergies in the wine industry

Yeast inoculation reinvented: Actiprotect Express™

Choose the right nutrient for your yeast!

events Enoforum

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Perdomini IOC

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INSIGHTS

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Enoforum



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NEW PEODUCTS

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NEWS

NATJJA ALMA™

- O It's part of the NATJJA™ range, 100% organic yeast nutrients.
- Thanks to zinc, magnesium, organic nitrogen, and a special chitosan, it's able to improve yeast well-being, reduce oxidative stress, and optimize aromatic biorevelation.
- It can enhance the expression of minerality in wines.

IOC DI-VINA™

- C Combine the exceptional sensory capabilities of a specific Hanseniaspora vineae strain with the fermentative robustness of a Saccharomyces cerevisiae veast.
- O Enhanced autolytic capacity: Early and intense release of natural yeast peptides and polysaccharides for greater volume, softness, and balance.
- Contribution to foam and protein stability, representing a natural alternative to "coating" additives.

IOC SMOOZBERRY™

- Winemaking yeast for red wines, created to meet the expectations of an evolving market.
- Contributes to providing fullness and roundness on the palate, thanks to exceptional polysaccharide release.
- O Ability to reveal fruity and varietal notes, suppressing undesirable vegetal aromas, lending freshness and drinkability to wines.

FULLRED™

- Blend based on grape tannins and yeast derivative rich in polysaccharides.
- Used during the devatting of red wines, it protects coloring matter from oxidation and prevents the precipitation of responsible complexes.
- It contributes to structure, volume, and taste, and is suitable as an adjuvant in fining operations.

ACTIVIT READY PS™ & ACTIVIT READY CH™

- C Liquid nutrients based on a specific yeast autolysate with a high content of organic nitrogen, derived from free amino acids and peptides.
- O Thanks to their liquid form, they can be used directly without the need for rehydration, allowing for simple, fast, and homogeneous dispersion in the must.
- They guarantee the success and speed of alcoholic fermentation, even under difficult conditions, by supporting the yeast during stress.

*Activit Ready PS™ is stabilized with malic acid. Activit Ready CH™ is stabilized with lactic acid.





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Perdomini **IOC**



Reinventing yeast inoculation



To save time and resources

For better fermentation performance and achieving sensory goals

NATJJA ALMA™

Yeast wellnes solutions

ART CHNICAL

"Minerality" has become an increasingly sought-after characteristic in the wine world, appreciated by both experts and consumers. This descriptor, which initially emerged in the Chablis region of France around 2000, is now used to enrich the profile of wines in many other regions, including Italy and Spain. Producers seek to highlight this quality to distinguish themselves from more fruity, amyl, and floral profiles. However, minerality is a complex concept, and its perception can vary significantly among industry professionals, making a univocal definition difficult.

Despite this definitional challenge, there's a general consensus that minerality is a real and distinctive sensation.

BENZILTIOLO: A KEY PLAYER

Recent research has identified benzyl thiol as a fundamental compound in the perception of minerality in wines. This compound is primarily formed through two pathways:

- C The Ehrlich pathway, which converts the amino acid phenylalanine into benzaldehyde.
- The reduction of benzaldehyde to benzyl thiol.

Several studies have shown that the concentration of benzyl thiols tends to increase with higher yeast assimilable nitrogen levels, and that their presence is less evident in wines produced with yeasts that do not produce H₂S.

NATJJA ALMA™: AN INNOVATIVE SOLUTION TO ENHANCE MINERALITY

To meet the growing demand for wines with pronounced minerality, NATJJA ALMA™ was developed. This product is designed to optimize the nutritional environment and key yeast metabolisms, improving overall yeast well-being and reducing oxidative stress.

Synergistic anti-free radical actions that protect the physiological state of the yeast

Faced with the increasing presence of ethanol in the must, winemaking yeast produces a large quantity of free radicals which, in particular, cause:

- Yeast DNA alteration
- O Onset of cell death
- Damage to the plasma membrane (likely causing reduced internalization of aromatic precursors)
- Destruction of enzymes and amino acids (which can limit the conversion of aromatic precursors).

Rich in exclusively organic nitrogen, NATJJA ALMA™ ensures better-regulated nutrition to avoid excessive population growth, thereby limiting associated phenomena of induced deficiency. Furthermore, the high level of zinc in NATJJA ALMA™, as well as the presence of specific chitosan, help reduce the harmful activity of free radicals and oxidative stress to improve the overall health of the yeast and express its secondary metabolism for the enhancement of aromas present in the grape.







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RESULTS AND APPLICATIONS

Trials conducted by the University of Turin have demonstrated the effectiveness of NATJJA ALMA™ in improving the sensory profile of wines.

Specifically, we highlight the results obtained with NATJJA ALMA™ in trials performed on Barbera and Arneis.

There are no contraindications for the use of NATJJA ALMA™ in the Charmat method for wines where mineral notes are desired to be enhanced.



NATJJA ALMA™ joins the **NATJJA™** range, which already includes NATJJA[™] and NATJJA fizz[™]. These are all 100% organic nutrients developed to improve yeast wellbeing and optimize aromatic biorevelation. NATJJA ALMA[™] enhances minerality notes in both white and red wines.

In conclusion, **NATJJA ALMA™** represents a significant innovation, offering a natural and effective way to boost minerality in white and red wines by supporting the metabolism of naturally selected yeast strains capable of revealing mineral perception.



YEAST WELLNESS SOLUTIONS

Optimizing Yeast Mineral Expression: An innovative approach to organic nutrition. It improves yeast well-being and optimizes aromatic and minerality revelation through free radical control.



NATIJAAMA

Yeast nutrient





Softness, fruitiness, and varietal expression.

The Saccharomyces cerevisiae yeast IOC SMOOZBERRY™ was specifically developed to meet the new demands of the red wine market and its consumers. The result of a targeted research program, this active dry yeast stands out for its fermentative robustness and its ability to modulate the taste structure and aromatic profile of red wines, particularly enhancing the varietal characteristics of the grapes.

Its action primarily focuses on two crucial aspects of red winemaking:

- C Enhancement of Structure and Volume on the Palate: Thanks to a remarkable release of mannoproteins during fermentation IOC SMOOZBERRY™ helps to coat the more astringent tannins, softening bitter and unpleasant sensations. This natural process increases the wine's fullness and roundness, making it more balanced and accessible, even for young wines.
- **○** Enhancement of varietal aromatic intensity: IOC SMOOZBERRY[™] possesses an exceptional ability to reveal the intrinsic aromatic potential of grapes. In particular, it promotes the liberation and stabilization of beta-damascenone, a key compound that intensifies fruity notes and helps suppress undesirable vegetal aromas. Furthermore, this yeast promotes the formation of complex esters, responsible for persistent fruity aromas, and the expression of varietal thiols characteristic of different grape varieties.

ACCELERATED MANNOPROTEIN RELEASE: IMPLICATIONS FOR WINE QUALITY

The ability of IOC SMOOZBERRY™ to release mannoproteins early and significantly during fermentation represents a distinct advantage. These macromolecules interact with tannins, reducing their harshness and imparting greater softness and a fuller palate volume to the wine. This effect helps make red wines produced with IOC SMOOZBERRY™ more accessible and enjoyable sooner, while still maintaining good aging potential.



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A more accessible palate, for new red wine drinkers



HNICAL ARTIC



VARIETAL

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SMOOTH

IOC Smoozberry



Revelation of varietal fruity aromas towards an original expression

Robustness adapted to climatic changes



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ANALYSIS OF MANNOPROTEIN LEVELS IN FINISHED WINES USING HPLC



RATIO OF C-13 NORISOPRENOID CONCENTRATIONS IN IOC SMOOZBERRY™ VERSUS REFERENCE YEASTS



ENHANCING VARIETAL CHARACTERISTICS: AN OPTIMIZED AROMATIC PROFILE

The specific enzymatic action of IOC SMOOZBERRY™ promotes the release of aromatic precursors present in grapes, particularly beta-damascenone. This compound intensifies the perception of fruity aromas, contributing to a richer and more complex olfactory profile.

Simultaneously, the production of complex esters and the revelation of varietal thiols typical of different black grape varieties allow for wines that express their distinctive aromatic peculiarities more clearly and intensely.



IOC SMOOZBERRY™ represents an advanced enological tool for producing highquality red wines. Its ability to enhance taste structure through the accelerated release of mannoproteins, and to boost the intensity and aromatic typicity of black grapes, makes it an ideal choice for

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producers aiming to obtain balanced, fruity, and approachable wines that can meet the expectations of an evolving market.

NEW RESEARCH PROJECT

BIOPROTECTION SYNERGIES IN THE WINE INDUSTRY

Microorganisms at the Service of Grape Quality - Focus on Recent Innovations

The project "Bioprotection Synergies in the Wine Industry," carried out in collaboration with CREA (Council for Agricultural Research and Economic Analysis), Microbion Laboratory, and Manica, aims to delve into crucial issues for sustainable viticulture and agriculture. It promotes innovative practices and solutions that reduce reliance on agrochemicals through the use of antagonistic microorganisms. This addresses the growing need to develop agricultural methods with low environmental impact and greater human health safety, in line with the European Green Deal objectives for reducing high-risk plant protection products.

A central aspect of the research project concerns the management of Botrytis cinerea, responsible for "grey mold," a pathology that threatens grape quality. Currently, its management relies on an integrated approach combining agricultural practices and chemical fungicides, whose use near harvest is limited. This situation highlights the importance of research and development of natural and effective alternatives based on biocontrol.

Despite the potential, the number of bioprotective microorganisms registered in the EU is still limited, underscoring the need to optimize selection processes and application protocols. The work explores both the optimization of already available microorganisms, through new experiments and protocols, including in combination with synthetic products, and the selection of new strains with criteria that include tolerance to integrated application with agrochemicals.

The initiative is based on the results of the BioProtect and FutuRAME research projects, which evaluated the efficacy of new biocontrol microorganisms against fungal pathogens of the vine, both pre- and post-harvest. The compatibility of plant protection products based on microorganisms with copper fungicides has also been studied, with particular attention to optimizing application protocols to make bioprotectants a concrete and valid alternative, including through an integrated approach with reduced dosages of traditional products.

The project activities focus on the following themes: the use of bioprotective microorganisms to reduce the use of traditional pesticides, innovative methodologies for grape protection pre- and post-harvest (with a focus on defense against Botrytis cinerea), and the compatibility between antagonistic microorganisms and copper-based plant protection products. The risks associated with the use of plant protection products and their persistence in the soil are also considered.

The preliminary results of the project encourage further research to validate synergistic defense approaches that employ antagonistic microorganisms to inhibit the growth of pathogenic fungi, offering effective crop protection and allowing for a

Progressive reduction in the use of chemical pesticides.

In November 2025, in collaboration with the partners of the "Bioprotection Synergies in the Wine Industry" project, we're organizing a conference for enologists, agronomists, and viticultural technicians. The goal is to delve into topics of great relevance for sustainable viticulture and agriculture. The event will present the project's results and focus on innovative practices and sustainable solutions aimed at reducing the use of agrochemicals and promoting bioprotection practices, with particular attention to the use of antagonistic microorganisms.

With this conference, we aim to raise awareness among participants about the importance of reducing the use of agrochemicals, especially copper-based ones, without compromising crop protection. We also intend to provide tools and knowledge to adopt innovative practices, thus contributing to the transition towards more sustainable viticulture.



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YEAST INOCULATION REINVENTED: ACTIPROTECT **EXPRESS™**

The world of enology is constantly evolving, seeking solutions that optimize processes without ever compromising the quality of the final product. In this scenario, ACTIPROTECT EXPRESS™ emerges as an innovative yeast protector that promises to revolutionize the crucial inoculation phase.

This product stands out for its advanced formulation, which is extremely rich in sterols-fundamental components for the vitality and functionality of the yeast cell membrane. The true innovation lies in its micro-aggregated form, a characteristic that significantly simplifies the inoculation process while preserving all the precious qualities of the selected yeast strain.

Fewer Steps, More Security, Enhanced Aromatic Expression

A comparison with traditional yeast rehydration protocols highlights a clear advantage. ACTIPROTECT EXPRESS™ ensures equally protected, if not superior, fermentation kinetics by eliminating the need to heat water for rehydration and to acclimate the "pied de cuve" to the must temperature, even when the must is particularly cold.

This simplification of the process not only saves valuable time and resources in the cellar but also contributes to greater fermentation security. By reducing handling and thermal shocks, the risk of stress to the yeast is minimized, promoting a rapid and regular fermentation start. Thanks to the high concentration of bioavailable sterols, ACTIPROTECT EXPRESS™ ensures optimal cell membrane function for the yeast, improving the integration of aromatic precursors present in the must. This translates into a greater ability for the yeast to fully express the intrinsic aromatic potential of the grapes, varietal, and terroir of origin. The result is a more complex sensory profile that is true to the wine's identity.

Its exceptional wettability is another strong point of ACTIPROTECT EXPRESS™. Thanks to its microaggregated form, it allows for extremely rapid resuspension of the product with minimal dust formation and no need to heat the rehydration water.

The optimized bioavailability of survival factors provided by ACTIPROTECT EXPRESS™ gives the inoculated yeast remarkable tolerance to a wide range of rehydration conditions. It's possible to use water at ambient temperature (2 15°C), and a rehydration time of just 15 minutes is sufficient, without the need for an acclimatization phase to the must temperature.

In conclusion, ACTIPROTECT EXPRESS™ represents a cutting-edge solution for combining operational efficiency with quality excellence. Its ability to simplify inoculation without compromising fermentation security, and indeed enhancing the wine's aromatic expression, makes it a valuable ally for enologists.

ALCOHOLIC FERMENTATION

RIESLING-ALSACE TAP 13% VOL-PH 3 < 50 N TU - YAN 180 MG/L







Density CONTROL 37°C - T° acclimatization - 30/45 min - Gen. 1 Protector

- ACTIPROTECT EXPRESS™ 15°C 15 min
- Temperature CONTROL 37°C T° acclimatization 30/45 min Gen. 1 Protector

ACTIPROTECT EXPRESS™ 15°C - 15 min

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ORGANIC NUTRITION

To avoid any type of malnutrition, choose the most suitable menu for your yeast!

COMPOSITION		Source of Nitrogen		Assimilable nitrogen provided (mg/l) from 40 g/hl addition	Ammoniacal nitrogen		Factors contributed by yeast			Othe	rs	
		ORGANIC NITROGEN	MINERAL NITROGEN		OSPHATES	SULPHATES	AMINO ACIDS	Sterols And Lipids	MINERALS	VITAMINS	THIAMINE C AGGIUNT	ELLULOSE
	Ecobiol pied de cuve			na			na	000	0000	0000		
Yeast protectors	Ecobiol pied de cuve Arom			na			na	000000	000	0000		
	Actiprotect Express™			na			na	000000	00000	0000		
	Natjja™ *	00000		13			00000		00000	0000		
Stimulating yeast aromatic	Natjja Fizz™ *	00000		13			00000		000000	0000		
methabolism	Natjja Alma™ *	00000		13			00000	o	00000	0000		
	Activit 0	000000		17			000000		000	000	000	
Organic nutrients	Extra PM	0000		12			0000	o	000	000		
	Activit Safe™	000		8			000	00	00	00		
	Activit	00	000	52	Х		o		00	00	00	
Maria	Activit AD	0000	000	57	Х		000		00	00	00	
nutrients	Ecobiol	00	000	48	Х	Х			00	00		00
	Ecobiol Perlage	000	00	36	Х		00		00	00		
Detossificant	Cellclean			na			na	00	00	00		
	Fosfovit		00000	84	Х						000	
Simple	Fosfovit +		0000	76	Х						00000	
(minerals)	MinVit		0000	76	Х	Х					000	0
	Phosphate Titres		0000	84	ok						000000	

* Contains a specific chitosan with antiradicalic effect

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ENOFORUM 2025

We're delighted to participate once again in Enoforum, the benchmark event for innovation in the wine sector. We'll be presenting:

"THE 'SPARKLING WINE BASE,' A FUNDAMENTAL STARTING POINT: NON-CONVENTIONAL YEASTS WITH AN IMPACT ON THE STABILITY AND SENSORY PROFILE OF SPARKLING WINES."

Yeast compounds that significantly influence the quality of sparkling wines include fatty acids, fatty acid esters, high molecular weight mannoproteins, proteins, nucleic acids, and other compounds that affect effervescence, stability, and the sensory profile. Polysaccharides and proteins are crucial for foam formation.

Hanseniaspora vineae is a non-Saccharomyces yeast that has attracted considerable interest due to its ability to improve the sensory profile of wines.



*Continuous aaitation of the base wine at a 90°C angle and monitoring of foam height for 2 minutes

VEN. ш

This yeast is known for its ability to undergo early autolysis, leading to an anticipated release of polysaccharides and peptides, which improves the wine's softness and balance. Furthermore, H. vineae can contribute to aromatic complexity and foam stability, making it an interesting option for producing high-quality sparkling wines.

A research program analyzed the combined use of H. vineae and an ethanol-tolerant fermentative yeast. This combination allowed for secure fermentations while maintaining sensory elegance. An increase in autolytic capacity was observed, with the early release of high molecular weight polysaccharides and peptides, improving the wine's softness and balance. In addition, a significant contribution to foam stability was noted, offering an alternative to traditional additives. The release of natural yeast compounds improved roundness and volume, mitigating acidity and the aggressiveness of bubbles, thereby enhancing the wine's overall quality.



IOC Di-Vina



H. vineae e S.





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and balance

Contribution

Biotecnologie, coadiuvanti, detergenti e filtrazione per l'enologia

RANGE La Claire IOC RANGE RANGE BLASTOSEL

ENO&ZYMES RANGE Zimopec range

MICROBIOLOGICAL STABILIZATION

Specific antioxidants: OxyLess

8

Products AUTHORIZED in the production of organic wines as required by Regulation (EU) N.2018/1584. They can be directly allowed or allowed if obtained from organic raw materials, if available (products indicated with * / necessary request to Perdomini of specific declaration).

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Vegan Product.



Scan the QR CODE to download the product sheets



(u)/FE

9	Actiprotect Express™	9	Activit™	9	Activit AD™
	Innovative yeast protector that significantly simplifies the inoculation process because it can be rehydrated in water at room temperature. It also ensures better aromatic expression for the yeast.	Ŷ	A fermentation activator, made up of ammonium salts, inactive yeast and thiamine. It generates organic and inorganic nitrogen and has a detoxifying effect, allowing the full aromatic expression of the yeast.	Ŷ	Nutrient made up of organic and inorganic nitrogen (biammonic phosphate) and thiamine. Unlike conventional complex nutrients, the main organic base is an autolyzed yeast.
2	Activit O [™]	NEW	Activit Ready PS™	NEW	Activit Ready CH™
	An alcoholic fermentation nutrient, 100% organic with added thiamine. When used in yeast inoculation and 1/3 of the way through fermentation, it generates greater production of fruity and floral aromas and reduces the production of sulphur.	\mathbf{v}	A ready-to-use liquid nutrient specifically developed for greater convenience in the cellar. For white and rosé wines.	9	A ready-to-use liquid nutrient specifically developed for greater convenience in the cellar. For red wines.
2	Activit Safe™	1	CellClean™	7	Ecobiol Pied de Cuve™
	Activit Safe™ is a 100% organic nutrient to be used at the two- thirds stage of alcoholic fermentation.	Ŷ	100% Saccharomyces cerevisiae yeast hulls with high detoxifying power. Cellclean yeast hulls absorb alcoholic fermentation inhibitors such as medium-chain fatty acids (hexanoic acid, octanoic acid and decanoic acid and residue of plant protection producs.	Ŷ	Specially formulated fermentatio regulator. When used during the rehydration of yeasts, it provides sterols and other vital components to aid yeast metabolism.
	Ecobiol Pied de Cuve	V	OEnocell™	9	Fosfo Vit™
?	Arom ^{***} Specially formulated fermentation regulator. When used during the rehydration of yeasts, it provides vital components allowing the yeast to fully express its potential for aromas and flavours.		A special fermentation regulator for use in all situations. It makes must less cloudy, regulates fermentation and enhances the potential of yeast.	Ŷ	A yeast nutrient made up of phosphate and thiamine. It can also be used in the production of organic wine.
	Fosfo Vit+™	0			Natiia™
~	A yeast nutrient made up of phosphate, cellulose and thiamine. Natjja Fizz™	· · · ·	Ain Vit ^{1M} A yeast nutrient made up of ammonium salts (sulphates and phosphates, thiamine and inert material.	Ŷ	Organic nutrient containing a special chitosan of fungal origin, developed to improve and protect the well-being and physiological conditions of wine yeasts during alcoholic fermentation (antioxidant and anti-radical effect), with consequent optimization of aromatic development
7	Organic nutrient containing a	NEW	Natjja Alma™		
v	special chitosan of rungal origin, developed to improve and protect the well-being and physiological conditions of wine yeasts during second fermentation with the Charmat method, as well as to guarantee re-fermentation	99	An innovative, 100% organic yeast nu protecting the well-being and physi Thanks to its specific composition o Natjja Alma™ is specifically dedicate yeasts capable of promoting miner tends to increase the yeast's potent increasing reduction defects.	utrier iolog f cert ed to ality ial to	t, ideal for improving and ical conditions of enological yeast tain peptides and amino acids, nourishing naturally selected in white, red, or rosé wines. In fact, i o express mineral notes without





OPTIMIZATION OF ALCOHOLIC FERMENTATION

	Tipe of Wine	FERMENTA KINETIC
	1	rapid
тм		rapid
		rapid
тм		rapid
ne™	Ţ	short
	II	rapid
	ŢŢ	rapid
al M	1	regular
		rapid

?* (? C58™

eXtas

🌮 * 🕜 SP665

? * ? 73™

Variet Touch

? VDP™

" IOC Be Fresh™

P^{*} P IOC Di-Vina™

🥐 🕜 IOC Fresh Rosé™

ĨI	rapid	15°C to 32°C	high (15,5% vol.)	average-high	enhances fruity and floral notes					
IOC range (Institut Oenologique de Champagne)										
TIT	rapid	18°C to 30°C	high (15% vol.)	low	fineness, preservation of the terroir					
1	regular	20°C to 28°C	high (15,5% vol.)	high	revelation of aromas associated with fresh fruity notes					
ĨĪ	from regular to rapid	12°C to 24°C; for fruity ester expression 12–15°C	moderate (14% vol.)	low	fruity esters (notes of red fruit, pineapple, citrus fruits); avoids aroma masking because of its inability to produce SO ₂					
ĨĪ	very fast	13–25°C; max. thiol expression: 15–18°C	high (15% vol.)	moderate	thiol expression (citrus and exotic fruits), enhancement of 3MH					
ĨĨ	regular	14ºC to 28ºC	high (16% vol.)	low	full and balanced expression of the grape variety and the terroir					
1	rapid	15°C to 35°C	high (16% vol.)	high	Bio-acidification of musts. Lachancea thermotolerans yeast capable of producing high levels of lactic acid to rebalance the freshness of wines. A natural alternative to acidifying additives.					
Ĩ	normal	15°C to 25°C	moderate (13,5% vol.)	moderate	smoothness fullness, and volume on the palate of base wines for sparkling wines					
Ţ	very fast	12°C to 25°C	high (16% vol.)	moderate	development of floral notes in young wines made from grapes considered "neutral"					
11	regular	18°C to 25°C;	high (15% vol.) in case of turbidity higher than 80 NTU	high	perfect balance between body and freshness in white wines, now without limits.					
1	regular	14°C to 24°C	moderate (14% vol.)	high	rounded, intensely aromatic wines with notes of red fruit (strawberry and raspberry), am and blackcurrant					
Ţ	very fast	18°C to 30°C	high (16% vol.)	low	expression of ripe and complex fruity aromas, volume in the mouth					

15°C to 30°C

13°C to 20°C

15°C to 35°C

10°C to 30°C

15°C to 35°C

14°C to 22°C

YEAST FOR ALCHOLIC FERMENTATION

high (16% vol.)	low	fruity aromas that remain stable over time
high (16% vol.)	high	maintains and enhances the defining features of the grape variety; enhances fruity, floral and fresh notes
high (15% vol.)	average-high	releases varietal terpenic aroma compounds; greater roundness and softness; adds reductive notes, enhances fruity and floral notes
elevata (14,5% vol.)	average-high	aromatic intensity, freshness, fruity, thiolic, persistence
high (17,5% vol.)	low	aromas of ripe red fruit and jam accompanied by notes of dried fruit and spicy notes
high (18% vol.)	low	elegance, fineness, structure and aomatic complexity
high (17% vol.)	high	enhances fruity notes; adds softness and balance
high (15% vol.)	moderate	Expression on of aromatic varietal notes

?	IOC Revelation Terroir™	1	regular	18°C to 30°C	high (15% vol.)	high	fruity varietal notes, freshness, fineness and elegance				
NEW	IOC Smoozberry™	1	regular	18°C to 30°C	high (16% vol.)	moderate	improvement of structure and volume on the palate, enhancement of varietal fruitiness	C			
BLASTOSEL range											
?	Delice™	•	regular	18°C to 32°C	high (15,5% vol.)	average-high	complex range of spicy aromas	🔗 * ultiM			
	Delta™		rapid	12°C to 35°C	high (18% vol.)	low	full and balanced expression of grape variety and terroir	A produ soluble the win			
	FR95™	1	very fast	12°C to 30°C	high (15% vol.)	low	fruity notes, hints of rose	persisti freshne			
	Grand Cru™	Ţ	regular	16°C to 30°C	high (17,5% vol.)	low	full expression of complex aroma compounds	Interap			
	Horizon™		regular	15°C to 30°C	moderate (14,5% vol.)	average-low	enhances aromatic cleanliness and perception of the terroir	Specifie			
	Lambda™		regular	18°C to 32°C	high (18% vol.)	average-high	complex range of spicy aromas	V liquid fo wine fo contrib			
	P346™		rapid	10°C to 18°C	moderate (14,5% vol.)	average-low	aroma of fresh fruit (citrus fruits, apple and pear), exotic fruits and white flowers	tiner pe with the			
	WhiteFeel™		rapid	15°C to 24°C	moderate (14,5% vol.)	low	notes of exotic fruits and fresh fruit				

Yeasts for Bioprotection

Find the second sec

► Ecobiol Rouge™

bouquet

Fullprotect[™]

Blend of tannins and yeast

polysaccharides, effective in

protection of the color and

aromas of white and rosé

wines. It specifically acts

against oxidation in the

prefermentation

phases.

fermentation activity but can combat unwanted pre-fermentation sulphitation.

IOC BoreAl™

thermotolerans yeast which V takes sugars and turns them into L-lactic acid. To be used at least twenty-four hours before inoculating the chosen value of the table of tabl Saccharomyces cerevisiae strain particular when cold-for alcoholic fermentation. Also macerating on the lea

Solution States Sta

Control Edifys Rilievo™

Innovative product based on

you to quickly perceive a

sensation of volume and

that interact with phenolic

known as "reduction".

Netarom[™]

taste.

specific inactivated yeasts allows

structure of the wine, thanks to

the presence of polysaccharides

compounds; promotes a greater

neutralizes the sulphurous scents

perception of fruitiness fresh, it

An ageing adjuvant made with

inactive yeast selected for its ability to absorb products

responsible for the reduction

Contraction Contractica Co

Innovative product based on Product deriving from yeast hulls rich in rapid-release specific yeasts, improves the parietal polysaccharides. It gustatory quality of wines by allows you to obtain more reducing the hint of bitterness and green characteristic of stable wines both from the point of view of color and taste some tannins and sulphurous (softness and structure) and hints known as "reduction".

Glutarom Extra™

Specific inactivated yeast with guaranteed glutathione content (reduced glutathione). Thanks to the presence of glutathione and reducing peptides, Glutarom Extra has a high antioxidant activity, allowing you to obtain wines with a better shelf-life.

Netarom Extra™

An ageing adjuvant made with inactive yeast rich in copper, makes it possible to absorb products that cause reduction taste without adding copper to the wine.

U/ÉE

a Fresh™

uct made with special completely mannoproteins. When added to before bottling, it stabilises the ("sugariness") and aromatic e nce by increasing the overall ess of the wine. It does not alter the ility of the wine.

a Ready Fizz™

AromColor™

fractions of mannoproteins in orm, instantly active and soluble in creamier bubbles. It Ites significantly to obtaining a rlage in sparkling wines produced Charmat method.

Pectolytic enzyme in granule form, for use when

macerating red-wine grapes. Boosts the breakdown of the

and aroma precursors contained in the skins. Moreover, thanks to its special formulation, it frees aroma precursors right from the fermentation stage.

A granular pectol tic/ β -

overall sensory profile (taste and aromas) of the wine.

V EvolutionPlus™

** 2 Flotto lash™

easier to separate.

Setting the set of the set of

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ENZYMES

or altiMa Jump™

Preparation based on 100% soluble yeast mannoproteins, specifically selected for the enhancement of wines white and rosé. UltiMA Jump is particularly exciting the citrus thiol notes excelently enhancing the ultimate freshness of the taste.

Control and the second state of the second

Liquid preparation made from selected mannoproteins which interacts with the aromatic components of the wine Increases the colloidal balance of the wine and increases both length in the mouth and "sugariness".

Eno&Zymes range

V

AromPress™

A granular pectolytic for skin maceration for aromatic white wines. It is

~ * Process Extreme™

In granule form, for V clarifying or macerating troublesome base formula, it is active even at sparklingwine bases or notfully-ripe grapes.

Zimopec range



ERIVATIVES CONTAINING \square ST **TREATMENTS** ш \geq U U U ш Ш

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✓ ultiMa Ready Expression[™]

Selected mannoprotein fractions in liquid form for instant activation and solubility in the wine to add a touch of freshness in terms of the balance of flavours. In red wines, this product is highly effective at reducing sourness and astringency, while in white wines it enhances sapidity.



IltiMa Soft™

A product made with special completely soluble mannoproteins. When added to the wine before bottling, it stabilises the softness ("sugariness") and aromatic persistence by increasing salinity and roundness and decreasing acidic edges. It does not alter the filterability of the wine.



** ClearSpeed™

A granular pectolytic thereby guaranteeing fresher, fruitier

✓ EnzyFlow[™]

A granular pectolytic/βglucanase enz yme, one o f action to improve t he filterability of must and wine.

SweetPress™

A aranular pectolvtic enzyme for the skin grapes. It is conducive to aromatic extraction.



★** TrueColor™

It promotes the dissolution



maceration of white grape vield of flower must.



possible to obtain clear low temperatures.

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of precursors and grape varieties. It improves

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ICROBIOLOGIC STABILIZERS ₽ĕ

V

Specific antioxidants: OxyLess

* OxyLess U™

A specific antioxidant for white and red musts. It protects the aromatic profile obtained at the end of alcoholic fermentation. It's rich in glutathione and

A specific antioxidant for white and red grapes. It prevents the browning and oxidation of must aromas.

* Absolute MV™ 0

Carbo F[™]

antioxidant amino acids.

reduction of pesticides. To be used during alcoholic fermentation or on wine during fining. Suitable for both white and red wines.

Special vegetable carbon with intense decolourizing power, s highly porous, making it perform extremely well in winemaking, as the contact surface between the carbon and the must/wine is exceptionally large.

Absolute SP™

🥐 Carbo Grané™

Carbo Grané is a carbon in pellet form with an exceptional decolourizing

extremely porous particles which can adsorb various different types of molecules, depending on their size.

🤛 Qi Smoke™

🛜 Extraflore **Complexity**[™] V

Bacteria used by direct inoculation. Increases spicy and fruity notes, and the sensation of roundness and volume Ideal if used in the technique of postalcoholic inoculation Especially suitable for red wines.

in white and red

winemakina.

Satine™ increases fruity notes and the sensation of body and volume on the palate. Suitable for large volumes

An allergen-free fining agent for white, red, and rosé wines, based on chitin polysaccharides. It offers excellent clarifying capabilities and effectively removes oxidized and oxidizable polyphenolic Qi No[Ox]™

- A fining and stabilizing agent for wines and musts, an alternative to casein. It's the first non
 - allergenic and biodegradable formulation that contains no animal-derived or synthetic products. It is, in fact, composed of bentonite and plant-derived polysaccharides from chitin.

✓ VinOfine Rouge™

An innovative alternative to traditional animal-based fining agents (gelatins, albumins), formulated with specific vegetable proteins for the clarification, color stability, and improved sensory quality of

SPECIFIC CORRECTIVE TREATMENTS

Extra lore Co-In[™] Bacteria used by direct inoculation. Increases the fruity and floral notes, with a minimal

production of diacetyl ("butter" notes). Ideal if used in the yeast/ bacteria co-inoculation technique. Especially suitable for white wines

Since Inobacter™

Long-preparation (Standard) bacteria. Suitable for all enological situations due to low diacetyl production, enhancing the wine's varietal notes, for the preparation of traditional method sparkling wine bases, or in wines with 'difficult' enological conditions.

red and rosé.

FERMENTATION

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* OxyLess V[™]

A specific antioxidant for white and red wines. It protects against oxidation and stabilizes the anthocyanin fraction that is still unstable during wine rackings.

Blend of yeast hulls from various strains of S. cerevisiae. Ideal for reducing pesticide residues, which can potentially inhibit alcoholic fermentation.

Carbo Clean™

Highly bleaching vegetable activated carbon, preserves the organoleptic characteristics of the

► Lumyclean Rex[™]

Special treatment made with a Blend of a special activated vegetable charcoal and silica gel, for white and rosé wines that helps winemakers avoid the so-called 'light-struck taste' caused by the photoreduction of riboflavin.

Formulated with fungal chitosan and enological carbon, it's designed to eliminate smoke taints in wines from vineyards located in areas affected by fires.

Sector Extra lore Density™

Contributes to the volume and fullness of the wines in the mouth, favoring the expression of a quality structure. It guarantees robustness in limiting winemaking conditions (high alcohol, low pH, very weak malic acid). It also reduces any aggressive sensations in the mouth.

Section 100 Maxi lore

Short-preparation (1-Step) bacteria. It increases fruity notes with low diacetyl production. Highly resistant to high alcohol content Particularly suitable for red wine vinification.



Extraflore **Pure Fruit**[™]

Direct inoculation Oenococcus oeni enological bacteria for the purity of fruit notes and for the control of malolactic fermentation under difficult conditions It promotes the purity of the wine's fruit profile and helps confer roundness

IOC Sentinel™

An innovative product, completely allergen-free and GMO-free, for the control of bacterial flora pre and postmalolactic fermentation.

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A regulator and activator of malolactic fermentation. It provides the essential nutrients to allow the bacteria to perform malolactic fermentation optimally, with a high fermentation speed.

Nutri lore PDC™

A specific nutrient to ensure the optimal initiation of malolactic fermentation. Particularly indicated when alcoholic fermentation conditions are difficult.

* Essential

FullRed™

V

AntiOxidant™

Gallnut tannin, extremely pure and very rich in polyphenols, with excellent antioxidant power. It inhibits the enzymatic activity responsible for the oxidation of musts from harvests affected by Botrytis.

9

Zimopec Ovolys™

Pure lysozyme derived from hen egg white. Its activity is effective against Gram-positive bacteria (lactic acid bacteria).

SR™

An ecological tannin for color stabilization in red wines.

* Essential PEP™

A grape seed-based tannin. Ideal for achieving protein stabilization and color stabilization, and for improving wine structure (ideal when combined with micro-oxygenation).

Mann Bouquet R16™

A product for red musts, composed of tannins and a yeast derivative rich in polysaccharides. It imparts complexity, spicy notes, and black fruit (currant) aromas, in addition to contributing to color stabilization.



Perdomini OC

* FullColor™

' Cromox™

Tannin derived from a blend of

proanthocyanidin and gall tannins; it possess a marked antioxidant activity and stabilizing effect on the coloring fraction.

A blend based on proanthocyanidin and ellagic tannins and polysaccharides (yeast origin) to be used during red fermentation for color stabilization and testo improvement

Tan FlavourFF™

A proanthocyanidin tannin for white and red winemaking, rich in flavonoids and aromatic

Tanin Bouquet B49™

Tannin for white and rosé musts, with a small fraction derived from yeast rich in glutathione. It's designed to produce wines with a fruity and exotic character while also performing a marker also performing a marked antioxidant action.



Cherry-based tannin for red and rosé musts, expressing red fruit notes while stabilizing color.

Used during the racking of red wines, it performs a protective action on the coloring matter, contributes to the wine's structure, volume, and taste, and is also suitable as a fining agent in clarification operations.

Tanifase Elevage™

Pure ellagic tannin. Ideal for eliminating sulfur-containing proteins, preventing oxidation, and improving the sensory profile of any wine.



Pure ellagic tannin derived from chestnut, characterized by the absence of bitterness and high chemical reactivity.

◆* Essential PEL[™]

A proanthocyanidin-based tannin, derived from white grape skins. It improves the wine's structure, body, and softness. It enhances the wine's primary aromas, increasing their intensity, without influencing its sensory profile.

~*Mann Bouquet B19™

A product for white and rosé musts, composed of tannins and a yeast derivative rich in polysaccharides and glutathione. It imparts floral and white fruit notes and provides excellent antioxidant action.

Tanin Bouquet B45™

Citrus-based tannin for white and rosé musts, expressing citrus notes along with effective antioxidant action.

Tanin SR™

Pure quebracho tannin for color stabilization.



100% liquid white grape tannin. It is 100% soluble with no precipitation. It is used for color stabilization and to impart softness to the wine.

CONTACT US

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