Effervescence

Since 1971





SERVICE PROVISION







STATION CENOTECHNIQUE DE CHAMPAGNE

Creator of effervescence

The STATION CENOTECHNIQUE DE CHAMPAGNE® is the only brand in the world today exclusively dedicated to the marketing of products for the production of sparkling wines. With a team of oenologists working in the field, the Station CEnotechnique de Champagne® offers winemakers personalized consulting based on analytical expertise, and provides services for stabilization, filtration, tirage and disgorging operations. The Research and Development department of the Station CEnotechnique de Champagne® has developed two ranges of oenological products, for the Traditional Method and the Charmat Method.

We invite you to discover our range. Together, we create the sparkling wines of the future.

50 years of history Since 1971

From the Traditional Method to the Charmat Method

1971	station enotechnique de champagne® founded by Pierre Martin (bottlers) and Georges Hardy (winemaker) in Magenta.
1972	Birth of the GYROPALETTE® The founders of the STATION ŒNOTECHNIQUE DE CHAMPAGNE® join forces with Jacques Ducoin and Claude Cazals, winegrowers and owners of the patent for the future Gyropalette®, to develop the famous automated riddling system, which revolutionized the champagne riddling process. The first alginate-based riddling additive for sparkling wines, designed for automated riddling.
1983	ADJUVANT 83 The first extremely pure bentonite-based stirring aid for sparkling wines, designed for automated stirring.
1984	The STATION ŒNOTECHNIQUE DE CHAMPAGNE® opens in Bar-Sur-Seine
1990	The SITEVI gold medal is awarded to MOSALUX, a system for measuring the foaming properties of wine.
1993	SOEC [®] joins the SOFRALAB [®] group
1995	STATION CENOTECHNIQUE DE CHAMPAGNE® opens in Reims
2005	OENOTILUS®, an internal aphrometer. Measures the pressure and temperature inside the bottle. It is used to monitor second fermentation during vinificationof sparkling wines.
2009	ISO 22000 certification SOEC is ISO 22000 certified for the production and packaging of oenological products. A guarantee of quality and food safety, and an integral part of our constant efforts to improve our products.
2012	SP® ORGANIC Yeast from the Champagne vineyards certified to comply with EU CE 834/2007 - RUE 203/2012 regulations and US regulations for organic farming (NOP).
2016	ORIGIN F-MAX Latest generation fining agent for clarification and treatment of musts.
2018	The first plant-based substitute for isinglass CRISTALGREEN /CRISTALSOL Fining additives specially formulated for sparkling wines.
2021	SOEC® 1971 & START Y® FRESH Elegance and freshness: an ideal duo for your sparkling wines!
	SOEC® celebrates its 50 th anniversary!

Effervescence Since 1971



OENOLOGY

- Oenological products
- Analyses
- + Tasting
- 🔶 Advice/Help
- Special services



SERVICE PROVISION

Filtration
Tartrate stabilization
Tirage
Disgorging

LABORATORIES WINE AND MUST ANALYSIS

Magenta - Epernay

ODERZO SITE Veneto ITALY

Oderzo



CLOSED TANK METHOD DIVISION

Closed tank specialists Experimental work and applications

TRADITIONAL METHOD DIVISION

Oenology and Microbiology Laboratory

Traditional method specialists

Experimental work and applications

The strength of a team! A human adventure that began 50 years ago

Traditional Method technological procedure

by the Station Œnotechnique de Champagne®



Charmat Method technological

procedure used for Prosecco

Pre-fermentation operations



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Key



Traditional Method





For use in EU Organic / NOP Products authorized for the production of organic wines according to European regulation ECE 834/2007 - RUE 203/2012. AND / OR complying with NOP (National Organic Program) Regulations. See details for each product on page 42.



Allergen-Free

Australian Certified Organic

WINEMAKING PRODUCTS

Yeast



SOEC[®] 7

Yeast from the vineyards of Champagne-Ardenne. Saccharomyces cerevisiae galactose - (ex bayanus) selected for its fermentation capabilities and organoleptic qualities, required for the production of high-quality sparkling wines. It performs well regarding fermentation under difficult conditions (low pH, low turbidity, high pressure). Recommended for alcoholic fermentation and secondary fermentation. Enables you to obtain wines with great aromatic finesse and optimum gustatory balance.

Dosage: 10 g/hL

Packaging: 500 g and 10 kg

LEVUR0005







SOEC® 1971

The production of fresh, fruity sparkling wines corresponds to constantly growing consumer requirements in many sparkling wine markets worldwide. **SOEC® 1971** is a strain of *Saccharomyces cerevisiae galactose* with:

- excellent fermentation properties that are necessary for the essential steps of sparkling wine production.
- fruity, fresh and balanced sparkling wine profiles.
 SOEC[®] 1971 is a strain selected, tested and approved

by the microbiology laboratory of the CIVC's technical and environmental division.

Dosage: 20 g/hL

Packaging: 500 g and 10 kg

LEVUR0083 (500 g)

LEVUR0084 (10 kg)



SOEC[®] 39

Yeast for the production of sparkling wines produced by the Charmat Method (closed tank). Combination of killer yeasts (Saccharomyces cerevisiae galactose - and Saccharomyces cerevisiae) developed and selected for their fermentation potential and ability to generate fresh floral aromas.



SOEC[®] 49

Yeast for the production of sparkling wines produced by the Charmat Method (closed tank). Combination of yeasts developed and selected for their fermentation potential and ability to generate fresh and fruity aromas.

Dosage: 20 g/hL Packaging: 500 g LEVUR0025



SOEC[®] 39 adds more aromas in the mouth (fruity and floral) and limits the reduction, enabling better expression of the aromas. The SOEC® 39 modality is preferred to the DV10 modality.

— DV10

Impact of SOEC® 39 compared to a classic



Organoleptic profile

Grapeworks T: +61 3 9555 5500 E: info@grapeworks.com.au W: grapeworks.com.au

Nutrients

Protective nutrients



START Y[®] SP

Nutrient supplement for the reactivation of yeasts used in creating yeast starters for sparkling wines. When added during rehydration, it makes yeast more resistant under difficult conditions at secondary fermentation (CO₂, low pH, alcohol).



Dosage: depends on the application - see technical data sheet (EU legal maximum: 260 g/hL)

Packaging: 1 kg

START0001

Organic nutrients





START Y® FRESH

A 100% organic nutrient based on yeast derivatives, ensuring good nutrition (it provides amino acids, vitamins, trace elements) for the yeasts, but also contributing to the lifespan of the aromas and the freshness of the wines. Designed for the production of sparkling wines, it guarantees a good start to the alcoholic fermentation of base wines and good nutrition during secondary fermentation.

It ensures good fermentation performance, supplying

a complete range of amino acids, vitamins and trace elements that are rapidly assimilated by the yeast. It improves the organoleptic profile of wines, preserving freshness and the persistence of fruity notes over time.

Dosage:

For the production of base wines: 10 to 30 g/hL For secondary fermentation: 5 to 20 g/hL

Packaging: 1 kg and 10 kg

START0006 (1 kg)

START0005 (10 kg)

Nutrient Starters / FA Supplement



CHARM® ACTIV

Nutritional supplement for yeasts, providing all the necessary elements to optimize multiplication and maintain optimum viability while preparing yeast starters and during secondary fermentation using the Charmat (Closed Tank) Method.



Dosage: 15 to 20 g/hL

Packaging: 1 kg

CHARM0005

Impact of a complex nutrient on secondary fermentation



With CHARM® ACTIV, secondary fermentation is more regular and saves 2 days compared to the control.

The CHARM[®] ACTIV modality is the best-rated in terms of aromatic intensity in the nose and in the mouth, and in the overall rating, with less marked bitterness.







PHOSPHATE COMPOSÉ

Nutrient complex for yeasts, consisting of diammonium phosphate and thiamine. Helps prevent sluggish or stuck fermentations. Especially recommended when preparing tirage leaven for secondary fermentation in the bottle.

Dosage: up to 12 g/hL Packaging: 1 kg and 5 kg

PHOSP0000 (1 kg) PHOSP0001 (5 kg)

Range of Nutrients								
Nutrients supplied by 20 g/hL								
Name	Positioning	Assimilable organic nitrogen	Assimilable mineral nitrogen	e Total assimilable nitrogen	Assimilable nitrogen	Thiamine	Survival factor	Multiplication support
	PROTECTIVE NUTRIENTS							
START Y® SP	Nutrient supplement for yeast reactivation	7 mg/L		7 mg/L	•		**	
			ORGANIC	NUTRIENTS				
START Y [®] FRESH	Organic nutrient to preserve wines' freshness	8 mg/L		8 mg/L	•	٠		
	NUTRIENTS FOR STARTERS / AF SUPPLEMENTS							
PHOSPHATE COMPOSÉ	Mineral nitrogen as a growth factor for yeast		42 mg/L	42 mg/L	•••	٠		
CHARM® ACTIV	Complex nutrient supplement for alcoholic fermentation and the preparation of tirage leaven in the Closed Tank Method	4,2 mg/L	16,6 mg/L	20,8 mg/L	••	٠		•

Optimization of the production of tirage leaven with START Y[®] SP

Tirage leavening is a crucial step for the success of the secondary fermentation. This leavening generally takes place in 3 stages: the rehydration phase, 1st multiplication phase and 2nd multiplication phase, during which Active Dry Yeasts (ADY) are gradually adapted to the characteristics of the base wine (particularly alcohol concentration and pH).

The choice of yeast, as well as the addition of specific nutrients such as **START Y® SP**, is extremely important in order to optimize multiplication and acclimatize the yeasts under good conditions.

Determining the optimal dose of START Y[®] SP to be added during the preparation of tirage leaven. Tests carried out with SOEC[®] 7^{*} and SOEC[®] 39^{*} yeasts at 5 g/hL



Yeast count at the end of the 1st and 2nd multiplication phases



The necessary and sufficient dose of START Y[®] SP for 5 g/hL of Active Dry Yeast (ADY) is 5 g/hL. In effect, the yeast population after rehydration is multiplied by an average factor of 3; at the end of the 1st multiplication phase, the population is multiplied by a factor of 2 to 3; and at the end of the 2nd multiplication phase, the population is multiplied by a factor of 2 to 4.

Comparison of the impact of different reactivators (at 5 g/hL) on yeast population during the production of tirage leaven. Tests performed with SOEC® 39* yeast at 5 g/hL



All of the reactivators enable you to obtain larger yeast populations at the end of the rehydration and 1st multiplication phases, compared to the control without reactivators.

At the end of 2nd multiplication, some reactivators no longer show any significant results (C, D and E). START Y[®] SP is the one that provides the highest population at the end of 2nd multiplication.

This last phase is decisive because it builds up the active population that will accomplish secondary fermentation.

Impact of START Y[®] SP (at 5 g/hL) on the development of the yeast starter.

Tests carried out with SOEC® 7* and SOEC® 39* yeasts at 5 g/hL



With START Y[®] SP at 5 g/hL, approximately 12 to 13 hours are gained during 1st multiplication, and 9 hours during 2nd multiplication.

This represents a gain of 21 to 22 hours compared to the protocol without reactivators. This time saving can be decisive for the good management of wine tirage.

* dose calculated on the total volume of wine to undergo secondary fermentation

Fining additives specifically formulated for base wines intended for the production of sparkling wines



The impacts						
Products	Total SO ₂	Free SO ₂	DO280	DO320	DO420	DO520
Cristaline [®] / Silica	51	26	7,7	3,5	0,092	0,033
Cristalgreen / Cristalsol	52	23	7,2	3,6	0,091	0,032



Evolution of turbidity at the top of the tank

(tests performed on different Wolfberger base wines)

Evolution of turbidity at the level of the tank's tasting faucet (tests carried out on various Wolfberger base wines)



⁻ Cristalgreen/Cristalsol --- Collage with Fish glue/silico

Fining





ORIGIN F-MAX

ORIGIN F-MAX is a nextgeneration fining product consisting of different active ingredients that act in synergy for the clarification and treatment of oxidation in musts and white and rosé wines. ORIGIN F-MAX is recommended for the treatment of press must or pressing juice must using traditional methods, and to rejuvenate developed wines.

Dosage: For sparkling wines: For cuvée juice: 30 to 50 g/hL For pressing juice: 75 to 100 g/hL

Packaging: 1 kg and 5 kg

ORIGI0001



CRISTALGREEN/ CRISTALSOL

100% plant based substitute for isling glass. Fining additive specially formulated for sparkling wines. Acting in synergy, **CRISTALGREEN** and **CRISTALSOL** refine organoleptic characteristics and improve clarity and filterability. Must be used together for maximum efficiency.

Dosage: 20 to 120 g/hL Packaging: 1 kg and 5 kg CRISTALGREEN CRIST0019 CRISTALSOL CRIST0022



CARBINE T GRANULE

De-odorizing and decontaminating of musts and white wines. Remove stains from musts and white wine. Effective against geosmin.



Dosage: For sparkling wines: For cuvée juice: 30 to 50 g/hL For pressing juice: 75 to 100 g/hL

Packaging: 1 kg and 5 kg

CARBI0000 (1 kg)

CARBI0003 (5 kg)

Protein stabilizers



Constant Con

Dosage: 20 to 100 g/hL

EFFICOL

Association of oenological bentonite selected for its high deproteinizing power and a specific protein glue that preserves the foaming qualities of sparkling wines. Eliminates unstable proteins from white and rosé base wines. Forms compact lees that settle fast.

Tartaric stabilizers



STABICa

On all types of wines, **STABICa** eliminates excess calcium that can cause crystallization in the bottle. It promotes the formation of racemic calcium tartrate which is insoluble in wine whatever the ambient temperature. **STABICa** alters neither the pH nor the total acidity of wines.

Dosage: depending on the amount of calcium to be precipitated. A dose of 5 g/hL removes 10 mg/L of calcium from the treated wine.

Packaging: 5 kg

STABI0008

Packaging: 1 kg

Tannins



SUBLITAN TIRAGE

Association of tannins, inactivated yeast and yeast hulls. Contributes significantly to the organoleptic improvement of sparkling wines. Adds brilliance to the wine, improves foam retention, and enhances the structure and roundness in the mouth of sparkling wines.

Dosage: 5 g/hL

Packaging: 500 g

SUBLI0013





CHARM® REDOX T

Complex of proanthocyanic and gallic tannins for the production of sparkling wines in the Charmat (closed tank) method. The aims of **CHARM® REDOX T** are to reinforce the antioxidant power of wines, rapidly consume the oxygen that may be present in wines, eliminate polyphenol oxidases responsible for wine oxidation, and prevent or eliminate reduction notes in wines.

Dosage: for must: 5 to 15 g/hL; for wine: 2 to 10 g/hL Packaging: 1 kg CHARM0004





After 15 days' aging, CHARM® REDOX T at 4 g/hL enables you to obtain more fruity notes in the nose and mouth and more floral notes in the mouth. It is also the least bitter of the modalities.



SUBLI CHARM®

Complex of proanthocyanic tannins for the production of sparkling wines in the Charmat (closed tank) method. The aims of **SUBLI CHARM®** are to reinforce the antioxidant power of wines, add volume and substance to the wine, prevent or eliminate reduction notes in the wines, preserve and emphasize the fruity or floral character of the wines, and round out the finish while eliminating slightly bitter notes.

Dosage: for must: 5 to 15 g/hL; for wine: 0.5 to 5 g/hL Packaging: 1 kg

SUBLI0007

Impact of tannins after 15 days' aging



- Control M3 - Wine 2 g/hL SUBLI CHARM®

After 15 days' aging, SUBLI CHARM® at 2 g/hL obtains the best overall score. It is clearly less reduced than the other modalities and less bitter than the control.

Impact of tannins after 15 days' aging Impact of ta

Additives



ADJUVANT 92

Riddling additive consisting of selected alginates and bentonites. Helps to form a compact deposit that can easily and quickly be assembled by riddling. Suitable for automated Gyropalette®-type riddling. In manual riddling, the movements must be gentle to prevent the deposit from breaking up. Handling is unhelpful and even detrimental. Can be used a on its own, or combined

with **CLAR T TIRAGE** or **CLAR T SPECIAL TIRAGE** and **COMPLEXE A.N.**

Dosage: 3 to 4 g/hL Packaging: 1 kg

ADJUV0014



Blend of different grades of pharmaceutical bentonites. During bottling, it coats the glass and forms an insulating layer between the glass and the yeast, a heavy deposit that easily settles back into place after the bottle is moved. After riddling, this deposit is compacted, which prevents the formation of frozen chunks too large to disgorge.



Dosage: 3.5 to 5.5 g/hL Packaging: 1 kg, 1 L and 10 L ADJUV0027 (1 kg) ADJUV0039 (1 L) ADJUV0024 (10 L)

Bacteria







VITILACTIC[®] STARTER BL01

VITILACTIC® STARTER BL01 is a lactic bacteria strain selected in Champagne Ardennes for carrying out malolactic fermentation on very acidic white wine. VITILACTIC® STARTER BL01 likewise contributes to producing white wine of great finesse in due respect with the typical character of vine varieties. Implementation requires prior acclimatization (starter culture).

Dosage: 20 to 100 g/hL

Packaging: Sachets of 25 g, 100 g

VITIL0008

VITIL0009



Yeast products



CHARM[®] AGE

Complex of yeast products rich in polysaccharides and reducing compounds to optimize the Charmat (closed tank) method over long aging periods.



Dosage: 15 to 30 g/hL

Packaging: 1 kg

CHARM0003

CHARM[®] ELEVAGE

Complex of yeast products rich in parietal polysaccharides for the production of sparkling wines with short aging periods in the Charmat (closed tank) method.



Dosage: 10 to 20 g/hL

Packaging: 1 kg

CHARM0002



After 15 days' aging, CHARM® AGE at

10 g/hL produces fresher, fatter and less bitter wines.



Impact of yeast products

after 15 days' aging

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- Control M4 - Wine 20 g/hL CHARM® ELEVAGE

After 15 days' aging, CHARM® ELEVAGE at 20 g/hL produces wines with more fruitiness in the nose, more fat, less reduction and less bitterness.

Products authorized in organic farming **(**

The Station Œnotechnique de Champagne[®] has a range of products authorized for the production of organic wines in accordance with European regulation 834/2007 - RUE 203/2012 and/or US NOP (National Organic Program) regulations.

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ADJUVANT 92	•		21
CARBINE T GRANULE	•	•	18
CHARM® AGE	•	•	22
CHARM® ELEVAGE	•	•	22
Charm® Redox T	•	•	20
EFFICOL	•		19
PHOSPHATE COMPOSÉ	•	•	13
SOEC® 1971	•	.	10
SOEC® 39	•	•	11
SOEC® 49			11
SOEC® 7		•	10
STABICa			19
START Y® FRESH	•		12
START Y® SP	•		12
SUBLI CHARM®	•	•	20
SUBLITAN TIRAGE	•	•	20
VITILACTIC® STARTER BL01	.	.	21

ECO CERI/®

These products are certified by the Ecocert certification body.

See the list of Station Œnotechnique de Champagne products authorized for use in the production of organic wines on the Ecocert website, www.ecocert.com



Charmat Method protocol





CHARM® ELEVAGE

20 g/hL to improve the taste profile by providing more volume and fatness, and by removing hardness and dryness.



« Short ageing » strategy

.

« Premium » strategy

SUBLI CHARM®

1 g/hL to improve the balance of the wine, remove bitterness and increase floral-type aromatic potential.







Certification ISO 22000

SOFRALAB® - STATION CENOTECHNIQUE DE CHAMPAGNE® has for many years followed a quality approach based on recognized standards. After being certified ISO 9001 in 1999, a quality management system, **SOFRALAB® - STATION CENOTECHNIQUE DE CHAMPAGNE®** decided in 2009 to step up to ISO 22000, a food safety management system in the food chain. The goal of **SOFRALAB® - STATION CENOTECHNIQUE DE CHAMPAGNE®** was to better meet its customers' expectations with regard to food safety, by demonstrating its control of potential hazards and by permanently providing safe, satisfactory products.

As a result, production, packaging and storage of **STATION CENOTECHNIQUE DE CHAMPAGNE®** oenological products are now certified **ISO 22000**.

Quality - Safety - Environment at the heart of our commitment

A genuinely proactive policy drives our strong commitment:

- renewal of our ISO 22000 certification since it was first obtained in 2009
- achievement of Organic certification by ECOCERT for our organic products
- up-to-date investment in production, logistics and IT to optimize conditions of hygiene, preservation and traceability

Our teams' training and information

All the men and women who make up our teams, and especially those working in production, are trained in strict rules of hygiene.

In line with **ISO 22000** requirements, we provide them with information about any safety issues that may arise. Our system is also regularly assessed and updated with the collaboration and involvement of all our staff.

Total traceability

STATION CENOTECHNIQUE DE CHAMPAGNE® oenological products are managed with total traceability, made possible by batch numbering of finished products and raw materials, and by the power of our ERP software package with regard to traceability. The batch number shown on each product enables in-depth traceability of the entire process: the raw materials used for production, suppliers, production conditions, transit warehouses, etc. Batch numbering of raw materials also enables the traceability of products manufactured from them to be controlled, right down to the end customer.



Certification pour la production, le conditionnement et le stockag des produits cenologiques



For use in the **Traditional Method**





Vegan

Key

For use in EU Organic / NOP Products authorized for the production of organic wines according to European regulation ECE 834/2007 - RUE 203/2012. AND / OR complying with NOP (National Organic Program) Regulations. See details for each product on page 42.



Allergen-Free



Australian Certified Organic



DE CHAMPAGNE

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