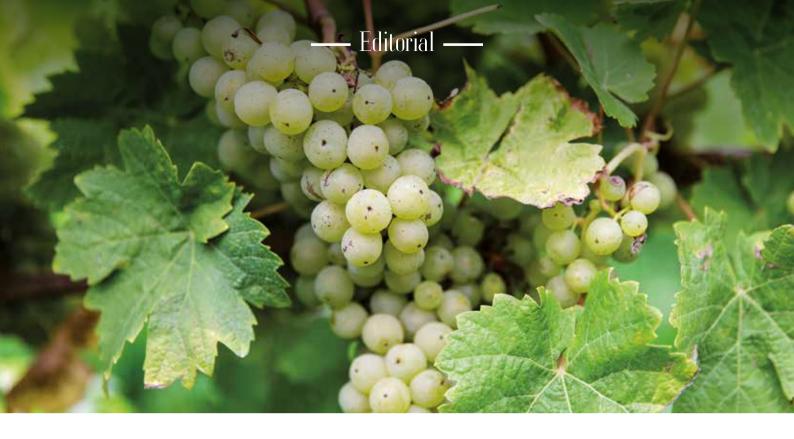


BY FERMENTIS. NEWS, ADVICE, PERSPECTIVES.

NEW YEAST P.03 SAFŒNO™ HD S135 **EVEN MORE PLEASURE** 

**INNOVATION** P.05 MAKE YOUR LIFE EASIER WITH "EASY-2-USE"



# 66 THE CRUSH IS COMING, GOOD LUCK EVERYONE! 99



lack ummer is almost back in the north hemisphere and, for some of you, the 2016 crush is around the corner. This is a great time to thank all of you distributing and/or using our products, for your trust and loyalty. It is also an opportunity to remind you of all the work we have undertaken over the last few months to help our customers address their respective needs. For two years, Fermentis has been increasing its research and investments to offer you new products and technical developments. We have just created our first organic product, "Springcell BIO"; and launched a new yeast strain with amazing properties, "SafŒno™ HD S135". We have also continued to develop the "easy-2-use" range allowing to simplify fermentation and save time, as we all know what a rare commodity time is. More generally, we have reorganized our teams and diversified our expertise to support you wherever you are in the world and whatever your requirements and priorities may be.

Wine is different all over the world, but wherever you are; taste, aroma and consumer satisfaction are major challenges. We hope that in this second issue of GoodNews you will find helpful information to move forward in your respective professions, whether you are a winemaker, an ænologist or a distributor. The very best of luck to you for this 2016-2017 campaign.

**Stéphane Meulemans** General Manager, Fermentis



The latest addition to the Fermentis range; Saf $\mathbb{E}$ no $\mathbb{I}$  HD S135 active dry yeast offers Premium red wines a subtle combination of full body and fruit. Beyond its great fermentation characteristics, it helps increase the structure of the wine while providing smoothness. It will delight all those looking to achieve a high alcohol content with a balanced sensation on the palate.



SafŒno™ HD S135 active dry yeast has just hit the market. After two long years of research & development, in our R&D center first, then in around seventy wineries, it has utilized every Fermentis and Lesaffre skills in microbiology and applied research. This yeast creates wines issued from a fast fermentation, which are deeply colored, without deviations and with a ripe berry fruitiness. All of that to satisfy market expectations in light of the first effects of global warming: make high alcohol wines aromatic and smoother.

#### Produces fullbodied wines with a nice smoothness

- ENABLES HIGH POLYPHENOL EXTRACTION GIVING
  - A deep structure
  - An intense and stable color
- BRINGS
   ROUNDNESS,
   ELEGANTLY
   SOFTENING THE
   MOUTHFEEL

# Perfectly suited for fruity premium reds

- ENHANCES

   FRUITY PROFILE,
   ESPECIALLY
   TOWARDS RIPE RED

   AND BLACK FRUITS
- INCREASES SWEETNESS SENSATIONS

# Excellent fermentation abilities

- HIGH ALCOHOL TOLERANCE
- FAST KINETIC THANKS TO LOW YEAST AVAILABLE NITROGEN NEEDS

3

#### Springcell BIO

## SOMETHING MORE

Over the last ten years, the organic movement has been gaining more and more ground in vineyards. Estates which have converted to organic farming may still be small in number, but the trend is constantly spreading and more and more of you are looking for new solutions. So here it is: Springcell BIO - an organic fermentation activator.

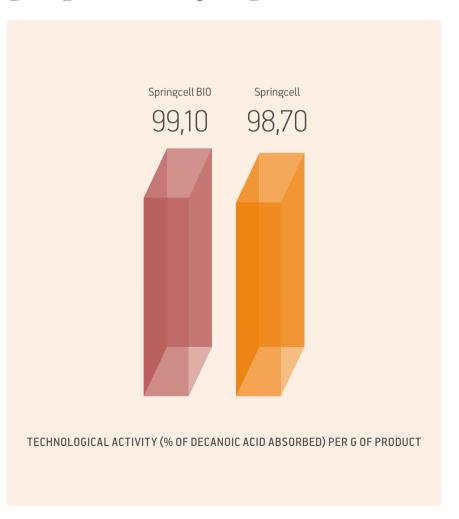


hose looking to produce organic wine know already that legislation is strict to say the least. The only yeast derivative you can use are cell hulls, preferably organic « if available ». Springcell BIO is the solution. First we developed organic yeast from a substrate that was certified organic. Once the cell hulls were extracted from this yeast, we could confirm that they had the same properties as traditional cell hulls.

#### — THE SAME PROPERTIES

Springcell BIO is just as effective as Springcell, with organic certification in addition. In both cases, they act as fermentation activators. They help detoxify the must and strengthen the yeast capacity to survive over time. In other words, they help work against slow and stuck fermentations. How? Firstly by adsorbing compounds which are toxic for yeast like inhibitive fatty acids and other problematic compounds like phyto sanitary product residues, ochratoxin A and more. Secondly by providing survival elements, sterols and unsaturated fatty acids - what we call "oxygen substitutes". Both conventional and organic products, help achieve complete consumption of the sugars with limited volatile acidity. They are mostly insoluble and play a supporting role in the highly clarified musts by increasing turbidity without modifying organoleptic qualities. Created primarily for organic winemakers, Springcell BIO can of course be used by everyone.

# 66 Do you like Springcell? You're going to love Springcell BIO 99







#### SafŒno™ BC S103

# RELIABLE UNDER ALL CIRCUMSTANCES

he SafŒno™ BC S103 strain has been in the Fermentis portfolio for a long time. It is one of the most appreciated active dry yeast strains. Our customers particularly enjoy its high resistance to difficult and even extreme situations: at low or very high temperatures, when the must offers very few nutrients, when the alcohol content is very high - up to 18 %... It is a safe bet and for many years it has proved its worth, all over the world.

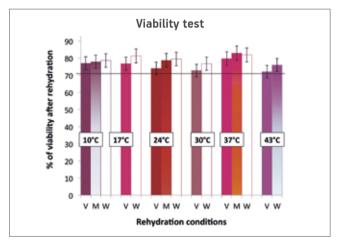
However, in 2015 we wanted more. We adopted the easy-2-use fermentation protocol to see if we could make it easier to use but just as efficient. Through difficult micro-vinification conditions, we compared our yeast usually rehydrated with cold rehydration procedure or direct inoculation into the must. At the end of the tests, the qualitative results were comparable. SafŒno $^{\text{TM}}$  BC S103 can still surprise us!



#### Preserved viability

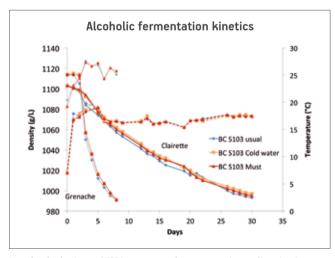
**Conditions:** the easy-2-use <sup>™</sup> SafŒno<sup>™</sup> BC S103 yeast was rehydrated in a 10% saccharose distilled water solution heated to different temperatures and stirred at very different rates for 45 minutes. **Findings:** the high viability of easy-2-use SafŒno™ BC S103 is only

and slightly affected by violent stirring conditions (dry yeast put into a flask, then submerged by the rehydration medium and violently shaken every 2-3 minutes)... totally unrealistic in wineries. Even in extreme cases (10°C and 43°C); its residual viability lies between 72-83 % (78-83 % for moderate stirring).



### Maintained fermentation performances

**Conditions:** the easy-2-use SafŒno™ BC S103 yeast has been prepared in a range of very different conditions and tested on two extreme Mediterranean microvinifications combining very high Potential Alcohol (PA) and very low Yeast Available Nitrogen (YAN) without nutrient addition during fermentation. First one on Clairette



Usual: rehydration at 37°C in tap water then progressive acclimatization to must temperature with must addition before inoculation. Cold water: rehydration in tap water at 15-17°C. Must: direct pitching.



white vinified at 17°C with a 15% v/v PA, 98 ppm YAN and with an initial turbidity of 5 NTU, adjusted to 50 NTU. Second one on Grenache red vinified at 20-28°C with a 16 % v/v PA and 120 ppm YAN.

Findings: the conditions in which easy-2-use SafŒno™ BC S103 yeast has been prepared didn't significantly affect alcoholic fermentation kinetics (fully explained by temperature shifts) and completion as well as standard oenological parameters such as volatile acidity. All yeast implantation controls were positive. Only very slight differences have been detected on color (less intense especially for cold rehydration) to be confirmed through less extreme conditions.

## An equivalent organoleptic profile

#### Triangular tastings

	Clairette	Grenache		
		After AF	After MLF	
Usual vs Cold water	S(5%)	NS	NS	
Usual vs Must	NS	NS	NS	
Cold water vs Must	S(5%)	NS	NS	

S: significant differences (threshold)

NS: non significant differences

Conditions: professional triangular tastings ("Among 3 samples in which 2 are from the same condition and 1 from another condition, identify which one is different from the others") have been carried out in order to assess the organoleptic differences between conditions. Clairette wine was tasted after racking off and sulfite addition without malolactic fermentation. Grenache wine was tasted after alcoholic fermentation and after malolactic fermentation after racking off and sulfite addition.

**Findings:** direct inoculation of the easy-2-use SafŒno™ BC S103 yeast had no significant impact on global organoleptic profile compared to usual rehydration, thus validating this time saving alternative. Rehydration in cold water showed weak but significant differences compared to the other conditions in this white wine, to be further investigated and confirmed.

Tests conducted by Meurice Institute and Inter-Rhône technical department on easy-2-use SafŒno™ BC S103, a strain selected for its very strong fermentation abilities under extreme winemaking conditions.



#### ViniLiquid

### THE FIRST EVER LIQUID YEAST AUTOLYSATE

**ViniLiquid** is a highly degraded liquid yeast autolysate combining the effects of yeast derivates and pure hulls. It secures your fermentation with ease and efficiency.

hanks to its liquid form, ViniLiquid has an immediate effect on yeast; it spectacularly increases the speed of fermentation when introduced between third and half-way through the fermentation process. It stimulates significant cellular growth and ensures high viability for a clean and quick end of fermentation, particularly when combined with an initial oxygen supply. Its pool of micro peptides is also interesting for the growth and performance of malolactic bacteria.

Easy-2-use, you can add it directly to the must, no need to dissolve it first. It completely disperses into the must with no blending problems. Pumpable, homogeneous and stable, ViniLiquid is ready to be added manually or through automated systems.

In terms of **safety,** ViniLiquid's liquid form removes the risks of dust inhalation associated with the handling of fine powder products.

#### **Key notes**

- Accelerating and/or securing alcoholic fermentation.
- Optimization and simplification of the supply during fermentation.
- Safe use.



#### Spring'Finer

### A PERFECT FINING AGENT PRODUCED FROM YFAST

**Spring'Finer** is a yeast protein extract produced from an innovative industrial process that extracts, concentrates and preserves native yeast proteins with remarkable fining properties.

Pring'Finer is the result of several years of research. It uses a unique industrial process, a combination of Lesaffre industrial expertise and Fermentis applied development skills. This innovative process extracts and preserves native proteins with remarkable fining properties, from a specially selected strain of Saccharomyces cerevisiae yeast. Through its nature and action, Spring'Finer offers all the advantages for fining of great wines.

**Easy-2-use,** Spring'Finer doesn't need any prior wine treatment before use and is totally soluble. Its micro-granulated form allows an immediate dissolution into water for a very easy use.

In terms of **safety**, Spring'Finer is exclusively from yeast origin and as such free of allergens.

#### **Key notes**

- Exclusively from yeast origin.
- Specificity towards astringent and bitter tannins.
- Easy-to-use.



# 70 winemakers involved

In light of evolving winegrowing and winemaking practices and the initial effects of global warming, Fermentis embarked upon a significant RGD program back in 2012. Our objective was to complete our yeast range. But the need to involve our customers with the process was also required. Here we take a look at a campaign of trials, carried out over eight months with the help of 70 winemakers.



In terms of research, Fermentis teams have always worked closely with the Lesaffre group's RGD department. However, in 2015 our collaboration entered a new phase. Convinced that nothing could replace real winemaking conditions, our respective microbiology and biochemist experts faced a two-fold ambition: create hybrid yeasts, make their first selection on synthetic must and, in parallel, test the strains we planned to market in the field.

#### — WINEMAKERS AND DISTRIBUTORS

This was an innovative action; both in its nature and size, with the number and diversity of partners involved: winemakers, distributors, cenologists... In total, one hundred and twenty-eight trials were scheduled in seventy wineries and on thirty grape varieties. Deployed in seven countries, these "field" tests were managed by a Fermentis cenologist. Focused on this research program for eight months, he was available at each stage of the crush, to explain the protocol to the winemakers, organize the logistics, follow vinification, collect results, analyze them and schedule tasting sessions.

#### — TWO NEW STRAINS CAME OUT OF THE PROGRAM

The results of this initial campaign are positive in two ways. Firstly, and this was Fermentis' primary objective, the market launch of two new strains. Their analytical and aromatic properties convinced; initially the winemakers, but also our distributors and customers who attended the tastings. Our second satisfaction came from the atmosphere which reigned during these tests. It was a shared spirit of curiosity, a common desire to innovate and generate reliable and effective solutions.

GOODNEWS • BY FERMENTIS • #2

## Interview

 $Etienne\ Dorignac\ \ \text{is one of Fermentis'}\ \text{cenologists.}\ \text{He provides us insights on a few key learnings,}$  from the tests which were held in the vineyards.}



#### Why did you want to go and test your strains in the field?

E.D.: Because nothing can replace real winemaking conditions. We were testing two new strains in the lab and the results were very promising. We wanted to involve our distributors, our customers and also our sales team about this choice at a moment that was particularly important for us: bringing a new strain on the market.

#### How did the winemakers react when you contacted them?

**E.D.:** Field tests are not new to them. But in general, a field test would involve a product already on the market. This time, we were asking them to test the strains as a preview. They were curious and willing. They understood that the strains we asked them to test could be beneficial for them in the near future.

## There is a lot of work to accomplish in wineries during a crush. Did everyone play its part?

**E.D.**: Overall, yes. Even if there are specific demands in this type of trials. You need a great deal of diligence and consistency, particularly to control and



collect the figures. When you inoculate a yeast into a must, you have to make sure that it is that specific yeast which takes over; not the wild, indigenous yeasts; otherwise, results are not interpretable.

#### 70 wineries, 7 countries... How did you coordinate the results?

**E.D.:** Firstly we simplified the work of the winemakers as much as possible. For

example, we gave everyone a complete kit with flasks, markers, pre-paid envelopes to send samples back to the lab... And a Fermentis œnologist was always in back-up during all the trials from the start to the end. He analyzed and compared all the results.

#### You have just launched SafŒno™ HD S135 on the market. So the trials were convincing?

**E.D.:** Yes definitely. Tastings organized with our distributors and their customers were a particularly important stage in the selection process. Our partners confirmed what we had observed in the experimental wineries: thanks to this new strain, the wines are more deeply structured, intensely colored and interestingly smooth.

#### If you had to sum up this test campaign, what would you say?

**E.D.:** That you have to be innovative. It is the first time that Fermentis performed wine yeast development from A to Z; i.e. from hybridization to implementation. The results prove that we were right to try. And, as you can probably guess, this is only the first stage...



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WINEMAKERS TOOK PART IN FERMENTIS TESTS ON NEW YEAST STRAINS.



MONTHS
THE TIME TO COMPLETE ALL
THE TRIALS BY ONE OF OUR
ŒNOLOGISTS.



COUNTRIES
THE TESTS HAVE BEEN
CARRIED OUT IN FRANCE,
SPAIN, ITALY, PORTUGAL,
SLOVENIA, THE UNITED STATES
AND ARGENTINA.

# NEW NAMES, A NEW LOOK

To help you identify our products, in 2015 we optimized our branding and related packaging and marking. One name, one color code per market segment and pictograms specific to applications: everything has become much simpler...

ince september 2015, all of our products use a unique umbrella brand, Fermentis. Thus, they also use a very clear identification on all the industries we are involved in. A specific color is dedicated to each business segment: burgundy for the winemaking industry, orange for the brewing industry, blue/green for the spirits industry and grey for other beverage industries.

Our products are also differentiated by application: Active Dry Yeast, Fermentation Aids, Functional Products and Enzymes – using specific symbols and colors.



RPEWING





OTHER REVERAGES

SPIRITS

ACTIVE DRY

TO FERMENT EFFICIENTLY
IN VARIOUS CONDITIONS
AND REVEAL SPECIFIC
FLAVORS



TO SECURE
THE FERMENTATION
AND INCREASE
THE YIELD



TO ENHANCE AND/ OR PRESERVE THE QUALITY OF YOUR BEVERAGE



TO OPTIMIZE
THE BEVERAGE
PROCESSING

### Two product families

Fermentis has a range of yeasts and a range of derivatives. To make them easier to identify, their names are changing. Yeasts will now have the prefix SafŒno $^{\text{TM}}$  and derivatives will have the prefix Spring $^{\text{TM}}$ .

ACTIVE DRY YEAST		FERMENTATION AIDS		FUNCTIONAL PRODUCTS		
St Georges S101	SafŒno™ STG S101	easy 2 USO	Bioferm	Springferm™		Spring'Finer
CK S102	SafŒno™ CK S102	easy	Bioferm Xtrem	Springferm <sup>™</sup> Xtrem		Springcell Color
BC S103	SafŒno™ BC S103	easy 2 USB	Bioferm Equilibre	Springferm™ Equilibre		Springarom®
UCLM S325	SafŒno™ UCLM S325			Springcell		Springcell Manno
UCLM S377	SafŒno™ UCLM S377			Springcell BIO	New!	
VR 44	SafŒno™ VR 44			ViniLiquid	9a57 2 2 199	
SC 22	SafŒno™ SC 22	easy 2 use				
NDA 21	SafŒno™ NDA 21	easy 2 USB				
	SafŒno™ HD S135	New!				

## What does the legislation say?

All of our products comply with the OIV regulations (Organisation Internationale de la Vigne et du Vin). The name changes have been done according to the current applicable European Regulations related to organic wine production: the Bioferm products cannot be considered as "organic" and additionally cannot be used for organic wine production as they contain yeast autolysates. No product containing inactivated yeast and/or yeast autolysates, being organic or not, can be used for organic wine production. Bioferm becomes Springferm<sup>TM</sup>!

# An expert in the art of fermentation

ermentis works with everyone in the world of beer, wine, spirits and other fermented beverages. Its range of products and services covers almost all professional requirements: from safeguarding production to expressing sensory characteristics. A Business Unit in the Lesaffre Group, a global benchmark in fermentation and yeast, Fermentis builds solutions and results upon its talented experts, visionary R&D program, industrial expertise that meets the highest international quality standards and a strong and coherent marketing and communication strategy. Its mission? Become the obvious choice for brewers, winemakers and all producers of fermented beverages, helping them express their inventiveness and creativity.

