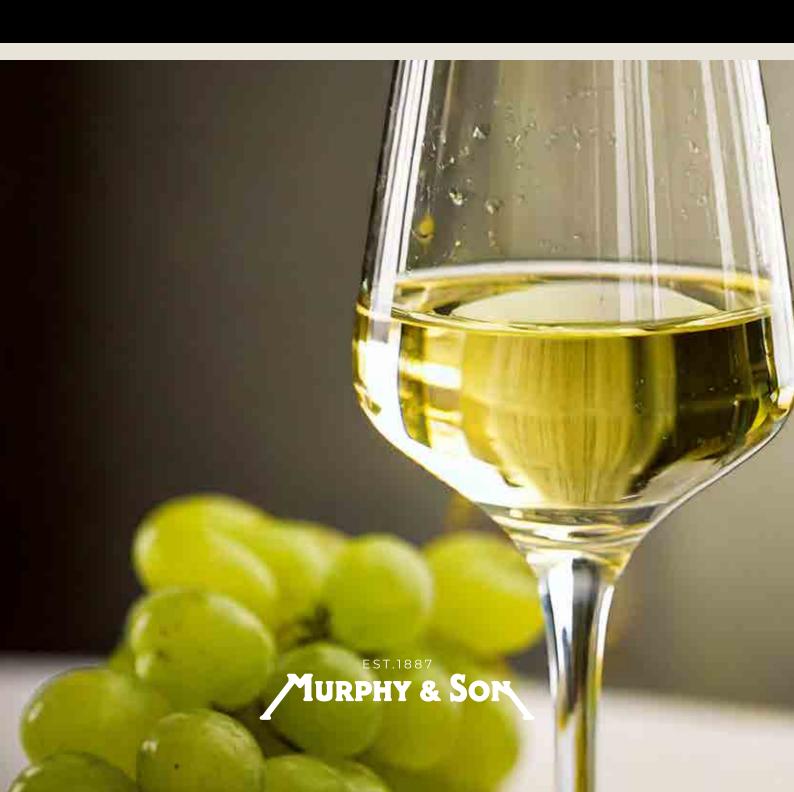
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BROCHURE



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1

# Welcome to Murphy & Son

We have been at the forefront of research and innovation into reliable solutions for bespoke fermenting challenges since 1887.

Through the supply of processing aids, yeasts, nutrients and cleaning chemicals, plus in-house technical support from our UKAS accredited laboratory, we will continue to evolve, advance and invent for the better of the industry.

Murphy & Son are the leading provider of supplies and technical expertise to the brewing, cider and wine industries.

Built on over 130 years of research with consulting brewers, wine and cider specialists, qualified scientists and food grade manufactures. We continue to develop a wide portfolio of products that will enhance clarification, stabilisation and flavour modifications, enabling you to streamline your process, increase efficiency and deliver product consistency.

# How To Order

You can place an order directly with our team or shop online.



www.murphyandson.co.uk



Clare Sisson sales@murphyandson.co.uk 0115 9780111

Contact Kieron or our technical support team for any questions on our products or to discuss issues with your wine.



Wine Consultant:

**Kieron Atkinson** 07967 720110

kieron.atkinson@murphyandson.co.uk



Technical Support:

techsupport@murphyandson.co.uk



A small investment in wine and cider analysis can save a fortune in lost sales.

We offer both individual analyses and analysis packages, as well as several more bespoke methods. Many of our customers set up regular routine due diligence testing for analyses such as quality and shelf life tests, and we are happy to advise you and provide quotes for such services.

For more details, please contact laboratory@murphyandson.co.uk

### Top Tip

Do you want expert analysis carried out by highly qualified and experienced technicians but haven't got the resources to set up an expensive laboratory? Look no further!

With our SALSA package, we arrange for sample bottles to be sent to you each month and prepare a professional report to help you sell with confidence. This is invaluable information as you start to really understand your recipes and improve the consistency as well as identifying trends that would otherwise go unnoticed.

\$		
SERVICE	TESTING DETAILS	SAMPLE AMOUNT REQUIRED
LAB-ABV	Provides an accurate ABV (%) for your wine for labelling (7 - 10 days turnaround)	250ml
LAB-HMS	Some metals, particularly iron and copper, can lead to the formation of haze in bottled wine. This method can also be used for the detection of other metal species such as Calcium, Silver, and Zinc etc. (please contact us if the element you wish to test is not listed here) (7 - 10 days)	50ml
LAB-SO2	SO2 is used as a preservative and anti-oxidant in wine making. The EU has a legal limit for Total $SO_2$ of 200ppm in white wines and even with low levels of $SO_2$ (>10 ppm) it is mandatory to include "contains sulphites" on the label. (3 - 5 days)	10ml
LAB-PH	pH control is important as changes in pH can strongly influence the colour, oxidation and stability of wine. (3 - 5 days)	50ml
LAB-CO2	To check $\mathrm{CO}_2$ levels are in line with the style of wine being made, some winemakers may wish to "liven up" their wine with a bit of fizz, conducting $\mathrm{CO}_2$ analysis before this can help you calculate the correct dosing level. (3 - 5 days)	50ml
LAB-MCHECK	General microscopy checks to identify the presence of spoilage organisms such as wild yeast or bacteria. This service can also be used to identify other foreign bodies such as haze causing crystals. (1 - 2 days)	50ml
LAB-MICRO- AUDIT	Contact us on laboratory@muphyandson.co.uk to arrange a site audit	
SP30 MICROSCOPE KIT	The kit is ideal for yeast and bacterial analysis. In addition to the microscope, we include pasteur pipettes, haemocytometer/counting chamber (including x 2 coverslips), methylene blue stain and 2 x 30ml sterile universal sampling bottles	



# National Collection of Yeast Cultures



All winegrowers face the challenge of achieving phenolic and enological maturity at the same time. LalVigne® is a natural inactive yeast derivative foliar spray applied at veraison. The source yeasts used in its production were selected from the Lallemand yeast collection.

Application of LalVigne® foliar sprays have resulted in improved concentration of aroma precursors, better mouthfeel and increased mature phenolic characters in the grapes and resulting wines.



Impact - Skin thickness, anthocyanins, tannins, balance, quality.

**Viticulture Benefits -** Improves ripening from veraison, uniform veraison and homogeneous maturation.

**Oenological Benefits -** Reduction of herbaceous aggressive characters, better tannin polymerisation, increase concentration of anthocyanins.



**Impact** - Increase and advance accumulation of aroma precursors.

**Viticulture Benefits -** Increase in berry skin thickness, impact of berry weight, Brix, pH, TA, Increased varietal aroma compounds.

**Oenological Benefits -** In thiolic varieties: increased 3MH and 3MHA in wines, reduced herbaceous and aggressive character, higher stability of aroma compounds, increased concentration of GSH.

PRODUCT	RED OR WHITE	DOSAGE	TIMING OF USE	SIZE
LALVIGNE MATURE™	Reds Whites	2 x 0.9 lb/acre	1st Application Beginning of veraison and 10 - 12 days later	1kg
LALVIGNE AROMA™	Increase and advance accumulation of aroma precursors for White Wines	2 x 2.9 lb/acre	Beginning of veraison and 10 - 12 days later	3kg



### Isolation of Native Yeast strains in the Vineyard

Why use a generic wine yeast when you can use your own local native strains? Make your wine even more special and a powerful marketing tool for your business.

Yeasts from the Saccharomyces genus are responsible for the must transformation into wine during the alcoholic fermentation utilising the sugars for the conversion into ethanol. During this process Saccharomyces cerevisiae also produces multiple aromatic compounds responsible for the complex organoleptic profile of the final product.

Natural fermentations can be difficult to control due to the number and quality of the strains. Most vineyards use external strains as addition to start the fermentation, and many of the commercially available yeasts come from other countries like France or Australia.

With the trend of locally produced wines in specific terroirs, why using external yeasts? To isolate your own native strains, we will need to sample the grapes before harvest. In the lab, we can then perform isolation and purification of the strains using selective media. Using PCR and molecular techniques, we will identify the isolated yeast species. NCYC also offers a confidential yeast banking service – so your strains can be securely kept long term in our Liquid Nitrogen storage facility.

### How it works

Your samples collected in your vineyard will be processed in the lab.

- Pied de Cuve by the vineyard (7-10 days) Spontaneous fermentation.
- Send sample to the laboratory for processing.
- On arrival, plating on selective agar to isolate yeasts strains
- Purification of colonies with different morphology
- We use PCR and sequencing to obtain species identity
- Complete Report with isolated strains
- Storage for a year of Native yeast isolates for the vineyard to trial.
- Once the vineyard makes the isolate selection, Strains can be deposited in Yeast Banking at NCYC
- Your vineyard will own your own strains and these can be used for future fermentations













APPLICATION (All Lalvin yeasts are available in 500g)

# Primary and secondary fermentation

SOEC® 1971		For the production of sparkling wines with great aromatic finesse.
LALVIN QA23™	10	For fresh fruit-focussed whites- reliable fermenter rated highly in thiol conversion to bring about enhanced aromatics.
LALVIN DV10™	10	Champion Yeast for primary and secondary fermentation; ability to perform in stressful conditions; clean and neutral.
LALVIN EC1118		Robust, reliable and neutral- useful for a wide range of applications; original strain not to be under estimated.

# White Wine

LALVIN 71™	For fresh, fruity nouveau wines. Has the ability to degrade malic acid.
CROSS EVOLUTION™	Hybrid yeast. Distinctive fruity and floral notes with mouthfeel. A high releaser and converter of thiols, resulting in wines with high 4MMP, 3MH and 3MHA.
LALVIN CY3079™	Slow white fermenter with early onset of post fermentation autolysis to yield roundness and complexity to support primary fruit. The reference yeast for premium white burgundy.
LALVIN ICV D47™	For complex whites with citrus and floral notes. Suited to wines undergoing barrel fermentation.
SAUVY™	Suited for wines where high aromatic intensity, especially volatile thiols in desired. Yeast with highest thiol production.
LALVIN SENSY™	Ideal for white varieties to promote varietal character and enhance aromatics. A QTL yeast with low to no $SO_2$ , $H_2S$ and acetaldehyde production. Recommended for Pinot Gris, Semillon, Chardonnay and Colombard.
UVAFERM BC™	Suited for a wide range of wine-making applications, particularly for production of fresh and fruity white wine styles, as well as early release fruit driven red wines and wines made by carbonic maceration. A clean fermenter that enhances the varietal character of the fruit. Can degrade up to 45% L-malic acid.





APPLICATION (All Lalvin yeasts are available in 500g) PRODUCT

# White & Rose Wine

# Red Wine

LALVIN RC212™	For Pinot Noir! Limited colour absorption onto yeast cells, protecting polyphenols during ageing. Contributes spicy notes and structure.
LALVIN RHÔNE 4600™	Produces a high level of fatty acid ethyl esters, which tend to promote aromatics described as apricot and tropical fruit.
LALVIN PERSY™	For clean and balanced fruity red wines. A QTL yeast with low to no SO <sub>2</sub> , H <sub>2</sub> S and acetaldehyde production.
LALVIN ICV GRE™	Suited to early drinking wine and red styles: it's reliability in fermentation favours upfront expression of aromatics.

# Non-Sacch

LEVEL2 FLAVIA™ MP36		Used to express varietal flavours such as terpenes and thiols in varietal white and rosé wines. Highly recommended for Riesling and Sauvignon blanc.
BIODIVA	Õ	Specially adapted to ferments late harvest and ice wines, in addition to Chardonnay, Semillon, Pinot Noir and craft ciders under 8% alcohol.
LEVEL2 LAKTIA™		Naturally acidifies grapes. Its unique properties to produce high level of lactic acid during fermentation.

Yeast suitable for Cider







# MURPHY & SON

Yeast nutrition is an essential factor in the overall health and success of fermentation. Managing nutrient requirements not only allows for regular and complete fermentations but also enhances sensory quality.

PRODUCT	USE	REDS / WHITES / ROSÉ	APPLICATION	DOSAGE	SIZE
Yeast Vit Vin	Yeast nutrient which compensates for must deficiencies in nitrogen, essential amino acids, vitamins and minerals for optimal fermentation	Red, White, Rosé	Vitamins and minerals for yeast vitality	3.5 g and 8.5 g per hL of juice	25kg
Pure Lees™ Longevity	A natural yeast derivative which helps wine resist oxidation during storage and aging	White, Rose	Add to the must/ wine toward end of alcoholic fermentation	20-40 g/hL	1kg
GO-FERM™	Use during active dry yeast rehydration	Red, White, Rosé	Protectant for yeast rehydration	30g/hL	1kg 2.5kg
GO-FERM PROTECT EVOLUTION™	Use during active dry yeast rehydration	Red, White, Rosé	Protectant during yeast rehydration	30 g/hL	2.5kg 1kg
FERMAID C™	A blended complex yeast nutrient suitable for the alcoholic fermentation of apple juice	Apple Juice Pear Juice	Vitamins and minerals for yeast vitality	30-50 g/hL	2.5kg
FERMAID K PLUS™	Yeast nutrient to compensate must deficiency in nitrogen and micronutrients	Red, White, Rosé	Add at the end of lag phase (12.5 g/hL) and after 1/3 sugar depletion (12.5 g/hL)	25 g/hL	2.5kg
FERMAID O™	Yeast nutrient to compensate must deficiency in nitrogen and micronutrients	Red, White, Rosé	Beginning and 1/3 of the alcoholic fermentation	30 g/hL	2.5kg
Glutastar Inactivated Yeast	Provides efficient protection against browning and aroma oxidation	White, Rose	Add to the juice at the start of fermentation	20 - 40g/hL	1kg
STIMULA CHARDONNAY™	To optimise the volatile ester biosynthesis by the yeast.	White	At the beginning of AF	40 g/hL	1kg
STIMULA SAUVIGNON™	Supply the optimal levels of amino acids, sterols, vitamins and minerals known to optimise the aromatic yeast metabolism	White	Added at 1/3 of AF	40 g/hL	1kg
Zetolite 65 (Zinc)	A blend of naturally occurring volcanic material and zinc salts that prevents H <sub>2</sub> S and DMS off flavours	Red, White, Rosé	Reduction of sulphur characteristic and improved yeast growth	Added at a rate of between 0.25 and 1g per hL	500g 10kg
Zinc Sulphate Heptahydrate	A simple source of zinc for where the nutrient is lacking.	Red, White, Rosé	Reduction of sulphur characteristic and improved yeast growth	0.045 to 0.11 g per hL	2.5kg 5kg 12.5kg
Zinc Sulphate Solution 6.5%	A simple source of zinc for where the nutrient is lacking.	Red, White, Rosé	Reduction of sulphur characteristic and improved yeast growth	Added within a range of 0.15 to 0.4 mls per hL of Zinc. Sulphate solution 6.5%. (Equivalent to 0.1 to 0.25 mg/litre as Zn <sup>2+</sup> )	5kg 25kg
MALOVIT B	Activator developed to improve the fermentability of Chardonnay wines MLF Nutrients.	White	1kg of MALOVIT B to 10L of water	20-30g/hL	500g 2.5kg

# **LALLZYME**<sup>™</sup>

LALLZYME™ microbial-origin enzymes are utilised in wine-making for:

- Clarifying musts and wines
- Macerating grapes
- Increasing the filterability of musts and wines
- Releasing flavour components
- Macerating yeast

PRODUCT	ORIGIN	SPECIFICITY	REDS / WHITES	APPLICATION	DOSAGE	SIZE
LALLZYME EX-V™	Aspergilus niger	Highly concentrated pectinase, increases the extraction of intracellar polyphenolic content from grape cell walls and cell membranes.  High level of side activities (cellulase/hemicellulose and FCE) allows for a complete and rapid release of anthocyanins, effectively releasing tannins leading to stable anthocyanin-tannin bonding.  Creates a more structured wine with deep, stable colour.	Reds	Red Grape maceration for full-bodied and complex red wines	10-30g/ton	100g
LALLZYME C-MAX™	Aspergilus niger	Clarifying enzyme for extreme conditions.  A high concentrated cinnamyl esterase-free pectinase blend, with pectinlyase and endopolygalacturonase, FCE.  Designed for fast and complete depectinisation of juices in extreem conditions i.e. high pectin content, low termperatures or low pH.	Whites	Juice Clarification in difficult conditions (low temperatures, low pH etc.)	0.5-2g/hL OR 20-75g / 1000 gal	250g
LALLZYME HC™	Aspergilus niger	A highly concentrated preparation of poly- galacturonase, pectin esterase and pectin lyase, which when combine provide a speedy breakdown of complex pectin modules concentrated in PG.	Reds Whites	Clarifying enzyme for Whites	0.5-1 g/hL	100g
LALLZYME BETA™	Aspergilus niger	Aroma-releasing enzyme.  Blend of pectinases, beta-glucosidase, rhamnosidase, apiosidase and arabinofuranosidase.  Used in white wine varieties high in "bound" terpenols (i.e. Gewurztraminer and Muscat), to cleave aroma precursors and enhance varietal character in aromatic wines.	Reds Whites	Release the aglycone from the aroma precursor.	4.0-5.0 g/hL for lower temperature, from 13-15°C	100g

# Malolactic Bacteria Selected From Nature





# Bacteria can be much more than just a deacidification tool.

Knowing its influence on the style and balance of the final wine is a key step in winemakers becoming aware of the bacteria as an essential tool in their goals to produce a highly lauded or award-winning wine.

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PRODUCT	BRAND	APPLICATION	ALCOHOL TOLERANCE	PH TOLERANCE	SO <sub>2</sub> TOTAL TOLERANCE	SIZE
LALVIN VP41™ MBR process™	Lallemand Oenology	MBR™ direct inoculation <i>Oenococcus oeni</i> highly tolerant strain which can perform under the most difficult winemaking conditions	16 %	>3.2	<60 mg/L	2.5g/2.5hL 25g/25hL
VP41 1-STEP™	Lallemand Oenology	The VP41 1-STEP™ (same strain as LALVIN VP41™ MBR process™) starter kit combines a highly effective malolactic starter culture with an activator to induce malolactic fermentation in an 18-24-hour build-up procedure.	16%	> 3.1	<60 mg/L	50g + 200g/100hL
LALVIN 31 <sup>™</sup> MBR process <sup>™</sup>	Lallemand Oenology	MBR <sup>™</sup> direct inoculation <i>Oenococcus oeni</i> , adapted to Low pH and low temperature	14 %	> 3.10	< 45 mg/L	2.5g/2.5hL 25g/25hL
ENOFERM ALPHA™ MBR process™	Lallemand Oenology	MBR <sup>™</sup> direct inoculation <i>Oenococcus oeni</i> ni sensory and mouthfeel over wide ranging difficult conditions	15.5 %	> 3.2	<50 mg/L	2.5g/2.5hL
LALVIN MT01™ MBR process™	Lallemand Oenology	Widely used malolactic cultures for sparkling and rosé winemaking	15 %	< 2.8	<80 mg/L	25g/25hL
Vitilactic Starter BL01	SOEC	A lactic bacteria strain selected in Champagne Ardennes for carrying out malolactic fermentation on very acidic (2.85 pH) white wine.	White	Malolactic Rehydration	Read TDS for more information	1kg
ML Prime	Lallemand Oenology	ML starter culture based on a powerful Lactobacillus plantarum with a very high malolactic activity and no risk of volatile acidity (VA) production		Malolactic Fermentation	Read TDS for more information	250g

### **MLF nutrients**

PRODUCT	BRAND	USE	RED/WHITE	APPLICATION	DOSAGE	SIZE
ACTI-ML™	Lallemand Oenology	Bacteria nutrient used during rehydration of the direct addition and standard malolactic bacteria strains	White	Malolactic Rehydration	20 g/hL	1kg
OPTI'MALO PLUS™	Lallemand Oenology	General-purpose MLF nutrient	White	Malolactic Rehydration	20 g/hL	1kg
Malovit B	SOEC	Fermentation activator for difficult white wines	White	Malolactic Fermentation	20 to 30 g/hL	500g 2.5kg

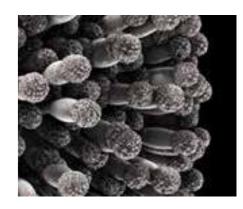
## Bactiless™

### Protect your wine from spoilage lactic acid bacteria with Bactiless™

A 100% natural non-GMO and non-allergenic biopolymer from fungal Aspergillus niger origin, helps control the bacteria population in red, white and rose wines.

Bactiless™ formula helps to lower the viable acetic and lactic bacteria population allowing easy removal. Despite its effectiveness towards a wide spectrum of bacteria, Bactiless™ does not affect yeast population. Its antibacterial effect can be enhanced with the use of SO₂, but it does not replace it, as Bactiless™ doesn't have an antioxidant and antifungal effect. However, it can help to reduce the amount of SO<sub>2</sub> needed to control lactic and acetic bacteria population.

Bactiless™ helps to avoid the negative sensory impact caused by spoilage bacteria such as acetic acid and biogenic amines.



















SIZE

500g

BACTILESS™

Lallemand

Dramatically reduces bacterial populations and prevents bacterial growth in wines after maloactic fermentation. Protects wines from spoilage lactic acid bateria and reduce production of metabolites i.e. biogenic amines.

Red, White, Rosé

Suspend Bactiless<sup>™</sup>in water or wine before addin to the wind hten mix in tank

20 g/hL





# The ultimate optimization of your wines and spirits in record time

A finishing touch for an effective and stable enhancement up until the consumption of your wines and spirits. Compacted oak chips for the fast treatment of wines and spirits. Species: each blend incorporates a combination of woods selected from French and American oak.

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PRODUCT	□□ MATRIX	WHEN	DOSAGE G/L	CONTACT TIME	OENOLOGICAL OBJECTIVE	SIZE	
Toast	Red Wines	Finishing	0.2 - 1g/L	1 week	Spices (clove, pepper), roast or even smoked notes (depending on the dose), added volume and roundness		
Booster	White Wines	Finishing OR alcoholic fermentation	0.2 - 0.5g/L	1 week	Smoked and spiced notes, increased complexity and length	7.5kg	
	Spirits	Finishing (before stabilization then filtration)	2 - 5g/L	1 - 2 weeks	Spices and smokiness. A high dosage will impart peaty notes		
	Red Wines	Finishing (possible before conditionnement)	1 - 3g/L	1 week	Ripe fruits, vanilla, pastry and roundness		
Vanille Booster	White Wines /Rosés	Finishing (possible before conditionnement)	0.5 - 2g/L	1 week	Fruit syrups, added structure	9kg	
booter	Spirits	Finishing (before stabilization then filtration OR use on white spirits before going in used barrels)	5 - 15g/L	3 weeks	Stewed fruits (fruits cuits) pastry and roundness in the mouth		
	Red Wines	End of maturing (potentially fermentation)	0.5 - 2g/L	1 week	Jam, spices, added volume		
The Original	White Wines /Rosés	End of maturing (potentially fermentation)	0.5 - 2g/L	1 week	Candied fruits, vanilla, roundness in the mouth	9kg	
	Spirits	Finishing (before stabilization then filtration OR use on white spirits before aging in used barrels)	2 - 15g/L	2 - 3 weeks	Vanilla, nuts, cocoa, richness and roundness in the mouth	-	
	Light Red Wine	Beginning or end of maturation	1 - 3g/L	1 - 2 months	Intense fruity notes. Richness and a lingering finish on the palate	-	
Oenochips	Concentrated Red Wine	Beginning or end of maturation	2 - 6g/L	2 - 3 months	Richness, a lingering finish and aromatic complexity without perceptible oak notes	- 9kg	
Exception	Press Wine (Herbaceous, Tannic)	To racked wine or end of maturation	3 - 6g/L	2 - 3 months	Rounded tannins. Boost volume and balance. Reduced herbaceous notes in favour of riper notes	Экg	
	White or Rosé Wine	On fermentation (no loss of profits made) or during the maturation	0.5 - 2g/L	1 - 2 months	Soft, exotic aromas. A sweeter sensation on the palate		
	Light Red Wine	After MLF	2 - 3 g/L	2-4 months after MLF*	Notes of fresh fruit and increase in volume		
Oki	Concentrated Red Wine	After MLF	3 - 5 g/L	2-4 months after MLF*	Red berries and integrated wood aromas (slight hint of vanilla). Added structure and roundness.	_	
Oenochips RO2	Fresh White Wines	During Aging	0.7 - 1.5 g/L	1-3 months during aging	Minerality (wood is imperceptible). Volume, liveliness and persistence on the palate.	9kg	
	Mature White Wines	During Aging	2 - 4 g/L	1-3 months during aging	White fruit in syrup and spicy aromas (cinnamon). Roundness on the palate		







Grape juice and wines contain naturally occuring particles and compounds like tannins (during oak barrel ageing) which can affect clarity and result in sediments in the bottle which can be removed through racking, natural additives (fining agents) and careful filtration.

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PRODUCT	BRAND	APPLICATION	DOSAGE	SIZE
KTS Flot	Martin Vialatte	KTS Flot is a latest generation product for the flotation of thermovinification whites, rosés and reds. It is composed of proteins and vegetable polysaccharides.	From 5 to 15 cl/hL depending on the quality of the must.	5L
CRISTALGREEN	SOEC	Non-allergenic fining additive specially formulated for sparkling wines. Maturation of organoleptic characteristics Improvement of clarity and filterability. In combination with CRISTALSOL, CRISTALGREEN gives wine clarity and brilliance. Its slow flocculation removes the finest particles in suspension. Once flocculation is complete, settling takes place rapidly	Both products must be used together. See the technical data sheet.	10L
CRISTALSOL	SOEC	Non-allergenic fining additive specially formulated for sparkling wines.  Maturation of organoleptic characteristics Improvement of clarity and filterability. CRISTALSOL is a preparation made from chitin derivatives from Aspegillus niger. Chitin derivatives exhibit well-known coagulation properties that are widely used in the food industry and in water treatment. Used in combination with CRISTALGREEN, CRISTALSOL enables you to obtain clear, brilliant wines. CRISTALSOL brings about high-quality flocculation that removes the finest particles in suspension.	Once flocculation is complete, settling takes place rapidly. Both products must be used together. See the technical data sheet.	10L
Electra Bentonite	Martin Vialatte	Activated calcium bentonite with high deproteinising power for the removal of unstable proteins from musts and wines.	20 to 100 g/hL	25kg
Finest	Murphy & Son	Our ready for use isinglass solution, Finest rapidly clears yeast from wine.	Optimisation needed	25, 200, 600, 1000kg
POLYCLAR PLUS 730	Ashland	Prevents against oxidation of flavonoids, which contributes to harsh, astringent and stale flavours.	Lab scale trials should be carried out to determine the dose rates	10kg

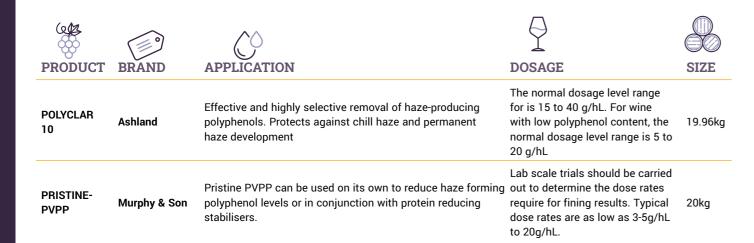
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# Filtration

# Applied Minerals DE powder

Diatomaeous earth filters comprise of the fossilised remains of diatoms - single celled aquatic algae. Used alone or as the second step in the filtering process. The lower permeability grades form filter cakes with small pores to produce a high degree of clarification, whilst higher permeability grades provide greater throughputs with corresponding clarity.

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PRODUCT	SIZE
FL-FP1	CELATOM DIATOMITE FP1 20kgs
FL-FP2	CELATOM DIATOMITE FP2 20kgs
FL-FP22	CELATOM DIATOMITE FP22 20kgs
FL-FP3	CELATOM DIATOMITE FP3 20kgs
FL-FW14	CELATOM DIATOMITE FW14 20kgs
FL-FW6	CELATOM DIATOMITE FW6 20kgs
FL-FW60	CELATOM DIATOMITE FW60 20kgs
FL-FW80	CELATOM DIATOMITE FW80 20kgs

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PRODUCT	BRAND	APPLICATION	DOSAGE	SIZE
Oenotannin VB Touch	Oenofrance	This pure oak tannin is derived using an innovative production process and is used for the ageing of white, red, and rose wine while providing volume to the wine and reinforcing its aromatic potential.	2-20g/hL	500g
NEO® CRISPY	Martin Vialatte	NEO® CRISPY is a yeast product rich in amino acids and reducing compounds. NEO® CRISPY reinforces the natural resistance of musts to oxidation.	Dissolve NEO CRISPY in 10 times its weight of water or must. Add to the volume to be treated. Ensure proper homogenization.	1kg
Noir Activa +	Martin Vialatte	Decolourizing oenological carbon in liquid form. Destaining of musts and stained white wines, and reduction of ochratoxin.	Read TDS for full instructions	1kg
Subliwhite	Martin Vialatte	Subliwhite is made of a blend of tannins selected for their antioxidant properties and their low astringency. Commonly used for red wines, the addition of tannins is far less widespread in white or rosé wine elaboration. However, white wines are faced with the same problems: oxidation, unfavourable colour development, reduction,	5 to 15 g/hL	1kg
CRISTAB GC	Martin Vialatte	A natural cellulose gum obtained from sustainably managed forests.  Particularly suited and efficient to stabilise wines with regards to potassium bitartrate.	40 cL/hL	5L 20L
ANTARTIKA® Fresh	Martin Vialatte	Stabilises wines tartrate precipitation of potassium bitartrate, and enhances their fresh, fruity character without increasing the rigidity of their tannin structure.	10 to 20 cL/hL	10L
ELECTRA®	Martin Vialatte	ELECTRA is an activated calcium bentonite with high de-proteinisation capacity.	2 to 3 cL/hL	25kg
Carbine T	SOEC	Removal of undesirable compounds from musts and wines.  The granulated form of CARBINE T avoids the release of dust, thus making it easier to use. In addition, its granulated form leads to improved settling compared with the powdered form.	Where possible, conduct laboratory tests on samples. 20 g/hL to 100 g/hL.	1kg
Potassium Bicarbonate	TATA	Used to deacidify must or wine.	Maximum dosage allowed in compliance with EC Regulations	1kg / 25kg
Potassium Metabisulphite (PMS)	Murphy & Son	A derivative form of sulphur dioxide proven as preservative in wine and cider to prohibit the growth of wild yeasts, bacteria and fungi preventing biological spoilage.	1.75gms per hL gives 10ppm sulphur dioxide (SO <sup>2</sup> )	25kg









PRODUCT	BRAND	APPLICATION	DOSAGE	SIZE
Duogom Max	Martin Vialatte	Duogom Max is an arabic gum-based solution at 200 g/L stabilized with 4 g/L of SO <sub>2</sub> . For colloidal stabilisation and improved roundness of wines. Application on filtered wine before bottling, for colour stabilisation and improved organoleptic qualities of wine (roundness / sweetness / aromatic intensity). Add Duogom Max after fining. Incorporate Duogom Max after the last filtration during bottling using a dosing pump connected to the filling machine.	1 litre for 2.5 hL to 10 hL of wine. The dose must be selected based on the colour instability of the wine. To assess this instability, perform a cold test (4 to 6 days at +2°C).	5L
Open Pure	Martin Vialatte	Open Pure is a preparation exclusively composed of purified mannoproteins from Saccharomyces cerevisiae yeast. Open Pure has a protective colloidal effect on wines by limiting tartaric and protein precipitation as well as an organoleptic effect by reducing the astringency of the tannins and the fruity and floral character of the wines.  In addition, Open Pure's mannoproteins have a positive effect on the quality of the bubbles in sparkling wines.	The dose of Open Pure to be used is between 0.5 and 5 g/hL.	250g
Origin F-Max	SOEC	Specific formulation for preventive and curative treatment of white and rosé musts and wines regarding oxidation. ORIGIN F-MAX is a next-generation fining agent made up of various active substances that act in synergy for the clarification and treatment of oxidation of white and rosé musts and wines.	Still wines: On free-run juice: 30 to 50 g/hL On pressed juice: 75 to 100 g/hL Sparkling wines: On first pressing juice: 30 to 50 g/hL On second pressing juice: 75 to 100 g/hL	1kg
Solution Oenologique No64	SOEC	Solution containing copper ions. Prevention and treatment of reduction odours.	Preventive treatment: for bottle fermentation: 2cL/hL Curative treatment: when disgorging: 0.5 to 2 cL/100 bottles	5L
KMS Solution 18%	Murphy & Son	This food grade Potasium Metabisulphite solution, provides a convenient way of adding measured quantities of sulphur dioxide, providing increased stability, whilst prolonging the shelf life of wine and cider.	Dosage - Add at any point in the wine and cider process. 10ml per hectolitre provides 18 ppm of sulphur dioxide (SO <sup>2</sup> ).	25kg

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PRODUCT	BRAND	APPLICATION	DOSAGE	SIZE
Clar T	SOEC	A solution composed of gallnut and ellagic tannins with supplementary copper. Tannins reinforce the tannic structure of wines, helping them to age well and protect the colouring matter produced by red base wines. The copper supplement prevents reduction characters appearing during secondary fermentation.	60 mL/hL	5L
CLAR T TIRAGE	SOEC	This bending of gall nut and chestnut tannins reinforces the wine structure and balance, guaranteeing good ageing in the fining process of white wines and certain red wines during bottling	2-6cL/hL	1L, 5L, 10L
Adjuvant 83	SOEC	A balanced combination of selected bentonites. Helps to efficiently clarify wines in bottles after the secondary fermentation. Facilitates manual riddling or the use of a Gyropalette.	2 to 3 g/hL or 6 cL/hL	5L
Adjuvant 92 Liquide	SOEC	A riddling adjuvant of the latest generation made of selected alginates and bentonites. Helps to form a compact deposit which easily and quickly aggregates by riddling.	ADJUVANT 92 is used alone at the dose of: 8 cL (80 mL/hL) of wine to bottle	101
Sublitan Tirage	SOEC	A combination of tannins, inactivated yeasts, and yeast hulls. Plays a major part in the organoleptic improvement of sparkling wines helping with brilliance, enhancing foam stability, and increasing structure and roundness in the mouth.  Added during tirage, Sublitan Tirage facilitates bottle fining to the elaboration of crystal-clear wines.	5 g/hL	500g
Start Y®SP	SOEC	A supplement of nutrients for reactivating yeasts used to make sparkling wines. Added during rehydration, it makes yeasts more resistant under difficult fermentation conditions.	According to application, see technical data sheet (EU legal max. 40 g/hL)	1kg
COMPLEXE A.N	SOEC	Facilitates riddling and compacting of the deposit.	2 to 3 cL/hL	5L
Phosphate Composé	SOEC	A nutrient blend for yeasts consisting of diammonium phosphate and thiamine. Especially recommended when preparing tirage yeasts for secondary fermentation in bottles. Helps prevent sluggish or stuck fermentation.	Up to 12 g/hL	1kg
Adjuvant MC Liquide	SOEC	Traditional method clarification of wine in bottles. ADJUVANT MC is a balanced blend produced from different types of pharmaceutical bentonites.  The use of bentonites from different origins reduces inequalities between batches and enables the best attributes of various bentonites to be combined.	8cL/hL	10L









Our lookup table below takes the hassle out of deciding which detergent, disinfectant or cleaner is the right fit for your winery.

## Top Tip

Did you know we also stock Scotchbrite pads in packs of 10 or a box of 60 to take the elbow grease out of getting your vessels sparkling?

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PRODUCT	BRAND	CONSTITUENTS	APPLICATION	WHERE TO ADD	DOSAGE	SIZE
Peracetic acid 5%	Murphy & Son	Peracetic Acid	Non rinse. Can be used for soak baths	FV/CT Packaging plant Pipework	0.3-2% depending on application	30kg
Stericleanse No1	Murphy & Son	Caustic Soda Sequestrant	Dissolves organic soil Can be used at hot temperatures (max. 80°C). Ideal for soft and hard water areas. Sterilises when hot.	FV/CT Packaging plant Pipework	0.25-2.0% depending on application	25, 200 and 1000kg
Caustic Soda 70TW	Murphy & Son	32% solution of Sodium Hydroxide	Suitable for stainless steel. Can be used at high temperature (max. 80°C)	FV/CT Ideal CIP detergent	Add water to give a final concentration as caustic of 1-2%.	25kg
Enzybrew 10	Realco	Enzymatic cleaner	Breaks down the organic soiling. Cleaning in a single cycle Safer for environment and user.	Fermenters, filters, Heat exchangers Fermenting vessels Conditioning tanks	General: 0.5-1% Intensive: 1-2%	10kg
Deptil	Holchem	Alcoholic bactericidal, fungicidal disinfectant	Non rinse. Applied as a spray.	Nozzle endings Valves Sample taps	Ready for use, contact time minimum of 2 minutes. Let dry for 5 minutes. No rinse.	4kg
Nipac B	Holchem	Phosphoric Acid Nitric Acid	ldeal for soft and hard water areas. Prevent scale build up.	FV/CT Packaging plant Pipework	1-4% depending upon degree of soiling	30kg
Scrub A Duck	Murphy & Son	Enzymatic Cleaner	Breaks down the organic soiling. Cleaning in a single cycle. Safer for environment and user.	Fermenters, filters, Heat exchangers Fermenting vessels Conditioning tanks	Solution at 2% to 3% with water at ambient temperature	20L



Lallemand is still the only major supplier of wine yeast or bacteria that is a primary producer of both. Lallemand Oenology counts itself among the world leaders in selecting, developing, and producing innovative microbiological solutions for winemaking since 1970.



Seguin Moreau alternative products are a top-of-the-range oenological response for every method of introducing oak aromas into wine. These products come from the same oak selection and proactive maturation processes as rough staves used to make Seguin Moreau barrels. Each one gives a different style that is appropriate for your wine-making tools and wines.



Applied Minerals are the exclusive distributor for Celatom® freshwater diatomaceous earth – an extremely high-quality diatomite. For almost 100 years, diatomaceous earth filtration has been the foundation for food and beverage processing, and it continues to produce extremely high quality filtrates more economically than most technologies.



From supply of yeast in bulk to safe and secure storage of your own terroir strains from individual vineyards, the NCYC offers a wide range of services to wine and cider makers. Their confidential yeast bank will help you to protect your production yeast against mishaps. Once stored in liquid nitrogen, they can guarantee supply of a pure and genetically stable sample whenever you need it



Realco is the world leader in the development, production, and sale of enzyme-based hygiene solutions.



Over the last three decades, Holchem has grown to become a market-leading supplier of hygiene solutions across the UK.



Wine connoisseurs agree - clear is best and Ashland has a solution to keep your blends clear and stable, regardless of the size of your winery.





Founded in 1922, the Sofralab® Group is based in Magenta, the cradle of the Champagne region. Whatever the new issues affecting the world of winemaking, they continually develop innovative solutions to your emerging needs.

New to our secondary fermentation range for 2022, their portfolio includes Tartaric stabilisers, CMC and products for the Fining of Must and Juice.

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# **Useful Information**

# Sugar to Potential Alcohol Chart

BRIX	BAUMÉ	°OECHSLE	SPECIFIC GRAVITY	POTENTIAL ALCOHOL
14	7.8		1.0568	7.6
15	8.3		1.0611	8.2
16	8.9	65	1.0654	8.8
17	9.4	69.8	1.0698	9.5
18	10.0	74.1	1.0741	10.1
19	10.6	78.5	1.0785	10.8
20	11.1	83	1.0830	11.5
21	11.7	87.4	1.0875	12.2
22	12.2	91.9	1.0920	12.9
23	12.8	96.5	1.0965	13.6
24	13.3	101	1.1011	14.4
25	13.9	105.6	1.1057	15.1
26	14.4	110.3	1.1103	15.9
27	15	114.9	1.1150	16.7
28	15.6	119.6	1.1197	17.5



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