



# Stimula™ Chardonnay

**Increases production of global aroma intensity index in white wines.**

## ORIGIN AND APPLICATION

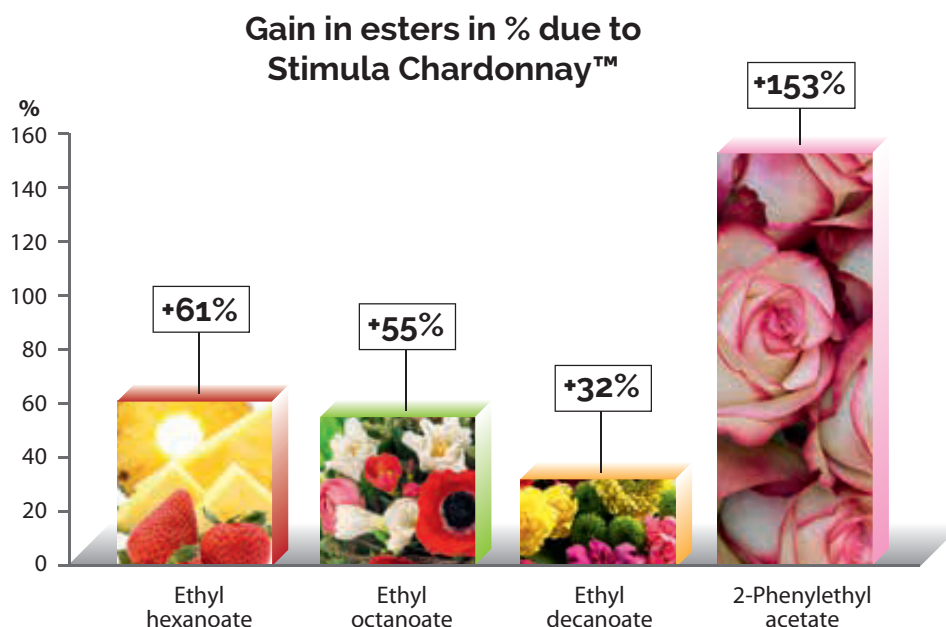
**Stimula™** is a new range of 100% yeast autolysate products formulated to supply the optimal levels of amino-acids, sterols, vitamins and minerals known to optimize the aromatic yeast metabolism.

**Stimula Chardonnay™** is particularly rich in biotin, B6 vitamins and in magnesium and zinc which optimize the volatile ester biosynthesis by yeast.

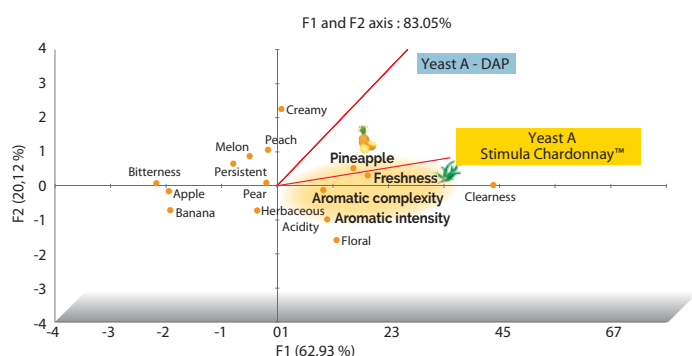
Through our knowledge of the yeast metabolism and with recent results with our research partners, we have defined the optimal moment to add **Stimula Chardonnay™**. It was demonstrated that the yeast switch from a primary growth metabolism to a secondary aromatic metabolism of ester biosynthesis at the end of the growth phase. Thus adding **Stimula Chardonnay™** at this moment will enhance this metabolism switch and optimize the biosynthesis of aroma compounds and support the bioconversions of precursors to volatile esters until the end of fermentation.



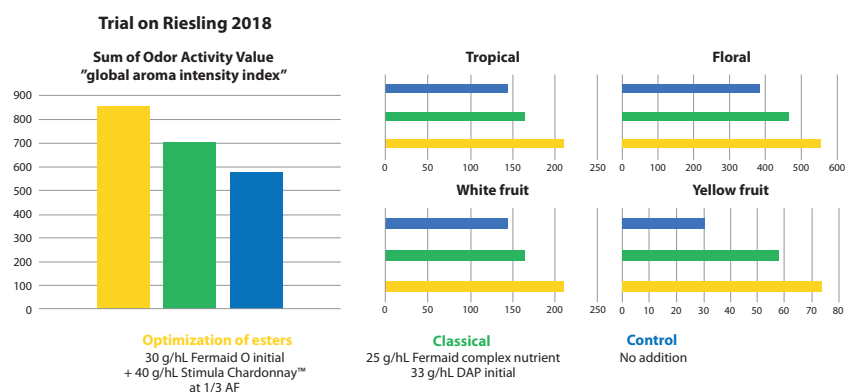
## APPLICATION AND RESULTS



Comparative trial on a Chardonnay wine (Spain, 2016) DAP vs Stimula Chardonnay™ both added at 40 g/hL at the first 1/3 of alcoholic fermentation. The bars represent the gain in some key esters in % for each compound using Stimula Chardonnay™ versus DAP (values are above the perception threshold).



Comparative trial on a Chardonnay wine (Spain, 2016) DAP vs **Stimula Chardonnay™** both added at 40 g/hL first 1/3 of alcoholic fermentation. The figure shows the principal component analysis (PCA) after a professional sensorial analysis (IRIAF, Spain) using the Napping® method.



**Stimula Chardonnay™** provides more complexity and intensity of aromas in other white varieties. Trial on a Riesling (2018, USA) with three nutrition strategies.

Odor Activity Value (OAV) = Compound concentration / perception threshold. The sum of OAV gives an estimation of global aroma intensity perceived.

## INSTRUCTIONS FOR USE

- **Stimula Chardonnay™** is a nutrient supplying highly available amino-acids, peptides, vitamins and minerals.
- Recommended dosage is 40 g/hL (400 ppm) added at the beginning of AF.
- **Stimula Chardonnay™** should be suspended with water (1 kg **Stimula Chardonnay™** in 10 L water) and added immediately to the tank. If prepared in advance, re-suspend the product prior to its addition to the fermenter.

Must YAN	Start of AF	1/3 <sup>rd</sup> way thru AF
>200 mg/L		Stimula Chardonnay™ 40 g/hL
125-200 mg/L	Fermaid O™ 10-20 g/hL	Stimula Chardonnay™ 40 g/hL
<125 mg/L	Fermaid O™/Fermaid AT™ 10-20 g/hL	Stimula Chardonnay™ 40 g/hL

### PACKAGING AND STORAGE

- 10 kg (10 x 1 kg boxes) in 10 kg box.
- Store in a dry environment below 25°C.
- Shelf-life at the recommended storage temperature is 4 years from production time.

The information herein is true and accurate to the best of our knowledge; however, this data sheet is not to be considered as a guarantee, expressed or implied, or as a condition of sale of this product.