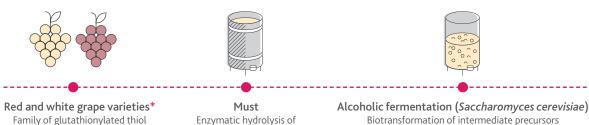
# FOCUS // LAFAZYM® THIOLS[+] & LAFAZYM® AROM **BRING OUT AROMAS**

# MECHANISMS FOR BIOTRANSFORMATION OF THIOL PRECURSORS BY YEAST

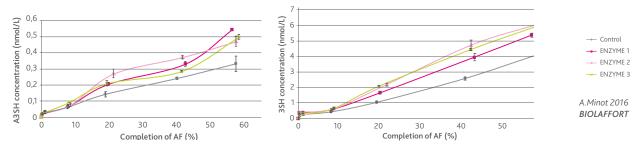


intermediate precursors.

\* Present in many red and white grape varieties: Sauvignon blanc, Colombard, Petit Manseng, Sémillon, Muscadet, Pinot Gris, Pinot Blanc, Melon Bourgogne, Macabeo, Syrah, Malbec, Pinot Noir, Grenache, Gewürztraminer, Cabernet Sauvignon, Chardonnay, Negrette, Verdejo, Merlot (red & rosé), Chenin Muscat. Tominaga et al., 2000; Murat et al., 2001; Blanchard et al., 2004; Sarrazin et al., 2007.

into volatile thiols.

# INCREASING THE BIOTRANSFORMATION OF VOLATILE THIOLS (3SH AND A3SH) THROUGH THE ADDITION OF ENZYME PREPARATIONS



Enzyme preparations at 5 q/hL compared with a control with no enzyme addition - A3SH: Passion fruit - 3SH: Grapefruit

- → How to optimise the biotransformation of thiols during alcoholic fermentation?
  - By using a yeast with the ability to release and convert volatile thiols: ZYMAFLORE® X5, DELTA et VL3.
  - By adding an enzyme preparation capable of promoting release of thiols by the yeast LAFAZYM® THIOL<sup>[+]</sup>.

#### PRE-FERMENTATION AND FERMENTATION PHASES

#### LAFAZYM® THIOL[+]

precursors.



Specific for bringing out aromas in grape varieties with volatile thiol characters.

- Micro-granulated preparation of pectolytic enzymes with secondary activities.
- · Acts in synergy with yeasts to bring out volatile thiols.
- Can be used on juice and added up to the first third of the alcoholic fermentation, to increase the aromatic potential of wines.

Dose: 3 - 6 g/hL.

### **AGEING PHASE**

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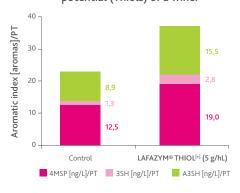


Specific to aromatic wines made from grape varieties such as Muscat, Riesling, Gewürztraminer, Chenin, Grenache, Syrah...

- Micro-granulated preparation of pectolytic and β-glucosidase enzymes.
- Increases the aromatic intensity of wines made from grape varieties with glycosylated terpene and norisoprenoid precursors.

Dose: 2 - 4 g/hL.

# Increase in the aromatic potential (Thiols) of a wine.



Experimental cellar trial - Sauvignon Blanc 4MSP: Boxwood - PT: perception threshold

