## LAFASE® XL EXTRACTION ROUGE

Liquid enzyme preparation for the maceration of red grapes.

Qualified for the elaboration of products for direct human consumption in the field of the regulated use in Oenology. Natural no GMO and preservative free. In accordance with the regulation (EU) 2019/934 and the food chemical Codex and JECFA.

### SPECIFICATIONS AND OENOLOGICAL APPLICATIONS

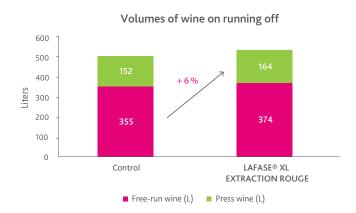
- LAFASE® XL EXTRACTION ROUGE is a liquid pectinolytic enzyme preparation rich in side-activities needed in maceration for the degradation of red grape skins.
- The cell wall of red grapes consists mainly of cellulose, hemicellulose and pectin. The pectin structure of the grape skin
  cells is more complex than that of the pulp. An enzyme preparation rich in side activities (cellulases, hemicellulases and
  rhamnogalacturonases) is necessary for efficient extraction of compounds of oenological interest during maceration.
  LAFASE® XL EXTRACTION ROUGE optimises the extraction of phenolic compounds such as anthocyanins and tannins
  and promotes the release of juice.

### LAFASE® XL EXTRACTION ROUGE:

- · Increases the yield of wine and more particularly free-run wine.
- · Favours the release of anthocyanins and tannins in red wines.
- Limits mechanical actions during extraction and pressing (drier pomace).
- · Facilitates the clarification of wine in preparation for bottling.

### **EXPERIMENTAL RESULTS**

• Trials on Cabernet Sauvignon - Impact of LAFASE® XL EXTRACTION ROUGE (3 mL/100 kg) on the volumes of free-run wine and press wine.



LAFASE® XL EXTRACTION ROUGE allowed a general increase in the extraction yield (+ 5 % free-run wine and + 1 % press wine). After analysis, the wine made with LAFASE® XL EXTRACTION ROUGE showed a more intense colour (ICM + 12 %) as well as better phenolic extraction (TPI + 7 %). On tasting, the wine vinified with LAFASE® XL EXTRACTION ROUGE is judged to be superior to the control in terms of balance and structure (data not shown in this document).



# JB - JS - 02.06.21 - The information shown above reflects the current state of our knowledge. It is given without commitment or guarantee since the conditions of use are beyond our control. It does not release the user rom legal compliance and safety advice given

### PHYSICAL CHARACTERISTICS

Aspect	liquid
Colour	brown
Insoluble matter	none
Stabilisers	glycerol, potassium chloride

Standardisation value (PGNU/mLg) $\geq$	5000
Approximate density (g/L)	1180
Preservatives	none

### CHEMICAL AND MICROBIOLOGICAL ANALYSIS

Toxins and mycotoxins no	ne
Total viable germs (CFU/g) < 5x1	04
Coliforms (CFU/g)<	30
<i>E.coli</i> (/25 g) no	ne
Salmonella (/25 g)no	ne

Lead (ppm)	<	5
Arsenic (ppm)	<	3
Mercury (ppm) <	0	. 5
Cadmium (ppm) <	0	.5

### **PROTOCOL FOR USE**

### **OENOLOGICAL CONDITIONS**

- LAFASE® XL EXTRACTION ROUGE can be added to grapes when filling the tank.
- SO<sub>2</sub>: Enzymes are not sensitive to normal doses of SO<sub>2</sub> (<300 mg/L) but it is recommended not to put the enzymes and sulphite solutions in direct contact.</li>
- The preparations are generally active at temperatures from 5 to 55°C (41-130°F) at a wine pH of 2.9 to 4.

### **DOSAGE**

The dosage must be adapted according to the grape variety, level of ripeness, wine style as well as the sanitary state of the grapes and maceration temperature.

- 2 mL/100 kg for a pre-fermentation maceration temperature of 20 to 30°C (68 to 86°F).
- 4 mL/100 kg for a pre-fermentation maceration temperature of 8 to 20°C (46 to 68°F).
- Increase the dose by 1 mL/100 kg on whole cluster.

### **IMPLEMENTATION**

Dilute LAFASE® XL EXTRACTION ROUGE in 10 times its volume in water or must before incorporation.

Safe practice: refer to the product safety sheet.

### STORAGE RECOMMENDATION

# • Store off the ground in the unopened original packaging at a moderate temperature in a cool area (2-10°C / 35.6-50°F) not liable to impart odours.

• Optimal date of use: 3 years.

### **PACKAGING**

1L/1.18 kg drum. 10L/11.8 kg drum.

