

# **MannoPLUS ND**

Mannoprotein in 20% aqueous solution

### **INFORMATION**

**MannoPLUS ND** is a liquid purified mannoprotein ready for direct use in wine.

» Contributes to the sensory characteristics of the wine, supplying density, richness and body.

Refines aggressive tannins, reducing astringency. Minimize the excessive wood tannin.

- » Restores acid balance by increasing positive in-mouth sensations.
- » Improves tartaric stability by preventing tartaric acid salts from crystallizing.
- » Improves protein stability.
- » Better color stability, due to the formation of protective colloids and stable complexes with tannins.
- » In second fermentation: increased volume in the mouth and the persistence of foam.

Due to the organoleptic properties of mannoproteins, it provides smoothness and considerably increases the voluminous effect in the mouth.

Rapid effect on volume sensation in the mouth. Does not add other aromatic notes to the wine.

### **APPLICATION**

For white and red wines. Added to finished wine as the last treatment before bottling.

» In wines to be filtered: Mannoplus ND must be added at least 24 hours before the last filtration. Mannoplus ND barely increases the clogging index of well prepared wines. Microfiltration is not needed after treatment.

We recommend that the clogging index be measured before microfiltration of the wine.

- » In wines not to be filtered: add Mannoplus ND 24 hours before bottling. Once the product is added to wine, it can be treated with sulfite and bottled.
- » In sparkling wines: Add with the expedition liqueur.

# MannoPLUS ND

Contribution of polysaccharide- and mannoproteinbased preparations to wine aromatic profile. Speed transfer of flavoring compounds, increase of volume and influence on stability.

### COMPOSITION

» Mannoprotein in 20% aqueous solution, citric acid monohydrate (E-330) and sulfur dioxide (E-220). (Contains sulfits: 2000-4000 ppm).



## **Polysaccharides**

Data sheet

### DOSAGE

Finished wine		
Red wine	25-75ml/hl	_
White wine	10-50 ml/hl	_
Sparkling wine	10-50 ml/hl	

### **DIRECTIONS**

1.It can be directly applied in the wine to be treated. To improve homogenization, it is recommended to dilute the product 2-4 times its volume.

2. Add to the total volume with dosing pump, if possible. Make sure to reach homogenization

### Sparkling wine:

Add to each bottle with the tirage liqueur, and disgorge as

The effect depends on the dose and wine characteristics.

### PHYSICAL APPEARANCE

Amber liquid.

### **PRESENTATION**

0.5kg bottles.

PHYSICOCHEMICAL PROPERTIES	EP 665 (rev.0)	
Dry residue [%]	>20	
Turbidity [NTU]	< 50	
рН	2-4	
SO <sub>2</sub>	2000- 2400	
Heavy metals [mg/kg]*	< 30	
Pb [mg/kg]*	< 5	
Hg [mg/kg]*	< 0,15	
As [mg/kg]*	< 1	
Cd [mg/kg]*	< 0,5	
Total Nitrogen [%]*	5- 75	
Total mesophilic aerobe count [UFC/g]*	< 104	
Total coliforms [UFC/g]*	< 10	
Staphylococcus aureus [UFC/g]*	ABSENT	
Salmonella [UFC/25g]*	ABSENT	
E. coli [UFC/25g]*	ABSENT	
Lactic bacteria [UFC/g]*	< 104	

(\*) Referenced value to dry raw material.

### **PRESERVATION**

Store in the original packaging in a cool, dry and odorless place.

Once opened, it should be used as soon as possible.

Best before: within 2 years after bottling.

### RGSEAA: 31.00391/CR

Product in compliance with the International Oenological Codex and Regulation (UE) 2019/934.