



**Springer Oenologie**<sup>®</sup>

NUTRITION

**Bioferm**<sup>®</sup>\*

\* **100% organic multi-purpose fermentation activator**

**DESCRIPTION** « yeasts...for yeasts ! »

**Bioferm<sup>®</sup> is a fermentation activator based on partially autolyzed yeasts, 3 times richer in available nitrogen than a basic inactivated yeast.** Directly issued from yeast, it brings amino acids, sterols, minerals & vitamins. Absence of these compounds can be harmful for a complete fermentation.



**PROPERTIES**

**MASTERING OF ORGANIC NITROGEN LEVEL**

Bioferm<sup>®</sup> is a 100% organic activator and as such, represents an amino nitrogen source that allows the wine maker to master the balance between organic and mineral nitrogen in the must. Its richness in both nucleotides & amino acids, which are essential compounds for yeast (Glutamic acid, Asparagine, Leucine, Lysine, Serine) is essential for the synthesis of proteins.

**SYNERGIC EFFECT BETWEEN MINERAL AND ORGANIC NITROGEN**

Organic nitrogen improving the ammonium assimilation, with a Bioferm<sup>®</sup> supply in addition to a mineral nitrogen source (diammonium phosphate DAP), yeast nutrition is optimized.

**VITAMINS SUPPLY**

**Bioferm<sup>®</sup> naturally contains up to 600 mg/kg of Thiamine.** A sufficient dose to cover the yeasts' needs and avoid the production of high levels of SO<sub>2</sub> and acetic acid. Additionally, Bioferm<sup>®</sup> is rich in folic acid, calcium pantothenate and niacin.

**SUPPORT EFFECT**

The insoluble part of Bioferm<sup>®</sup> plays a supporting role in case of too much clarified musts. Turbidity increases without facing organoleptic deviations caused by heavy lees.

**RICHNESS IN SURVIVAL FACTORS (ERGOSTEROLS)**

**Bioferm<sup>®</sup> contains 20% yeast cell walls that are rich in lipids and notably ergosterols,** which are considered as oxygen substitutes in strict anaerobic conditions. They are necessary to ensure the resistance to ethanol of the membrane and its permeability to carbohydrates.

**FERMENTIS**

Division of S.I.Lesaffre

## DOSAGE

Initial dose of available nitrogen in the must	Bioferm® supply 24 hours after fermentation start	Bioferm® supply at mid-fermentation. <b>Systematically if <math>\geq 14\%</math> vol./vol.</b>
>250 mg/L	15 g/hl + 15 g/hl DAP	
150-250 mg/L	20 g/hl + 20/hl DAP	20 g/hl + 20 g/hl DAP + oxygen supply
< 150 mg/L	30 g/hl + 30/hl DAP	20 g/hl + 20/hl DAP + oxygen supply
In case of much clarified musts (NTU < 80)	+10 g/hl Bioferm® in addition to the above modalities	+10 g/hl of Bioferm® in addition to the above modalities

**20g/hl of Bioferm® supply ~6 ppm of available organic nitrogen**

## COMPOSITION in g%g of product (indicative values)

Dry matter	>94%
Total Nitrogen	9-10%
<i>Among which available amino nitrogen</i>	<b>2,9-3,3%</b>
Total Polysaccharides	17-21%
Lipids	6-8%
Minerals	5-9%
<b>Vitamins</b>	In ppm
<i>Thiamine</i>	400-600
<i>Calcium pantothenate</i>	50-170
<i>Niacin</i>	200-300
<i>Folic Acid</i>	20-40

## PACKAGING

Carton of 10 sachets of 1kg

## GUARANTEE

Springer Oenologie guarantees an optimum storage of this product during 3 years in its original packaging at a temperature of maximum 20°C and in a dry place.

Springer Oenologie guarantees the product complies with the International Oenological Codex until its Best Before End Date in the storage conditions mentioned above.

**Springer Oenologie fermentation activators and ageing products are exclusively produced from natural yeast products. The Know-how of the Lesaffre group guarantees end users, high performing products as required by modern oenological applications.**

*The data contained in this technical sheet are the exact transcription of our knowledge of the product at the mentioned date. They are the exclusive property of Fermentis-Division of S.I.Lesaffre. It is of the uses responsibility to make sure that the usage of this particular product complies with the legislation.*