FERMOPLUS® Omega 3

Functional nourishment for yeasts

GMO FREE

TECHNICAL DESCRIPTION

It is the nutriment preventing the cell ageing and its functional components are sterols, amino acids, vitamins deriving from yeast cell hulls and Omega 3 carried by ichthyo-proteins.
The last researches highlighted that the polyunsaturated fatty acids are important for the maintenance of the entirety and for the functionality of the cellular membrane responsible for the selective exchange between cell and medium.

Researches about functional biochemistry carried out by AEB also highlighted the positive effects correlated to the presence of Omega 3. Thanks to their chemical structure with several double bonds, they grant a better fluidity of cellular membranes. This allows the membrane proteins, with the function of carriers, to rotate with a ping-pong mechanism from the cytoplasmic side to the extra-cellular one, carrying out a higher number of rotations per time unit.

Fermoplus Omega 3 avoids that the ethanol transport towards the cell outside slows down. This metabolic advantage is particularly important when the alcoholic degree inducing stress in the yeasts increases. **Fermoplus Omega 3** strengthens the enzymatic activity of the phospholipidic membrane and facilitates the metabolite assimilation, in particular that of sugars.
Fermoplus Omega 3 has a positive interaction also towards the nitrogenous metabolism, as it facilitates the movement of the GAP protein (General Aminoacid Permease), main entry way of the amino acids inside the cell.

The yeast cell hulls, ammoniac salts and vitamins contained in **Fermoplus Omega 3** bring yeasts sterols, amino acids, micro-elements, vitamins and nitrogenous substances, growth factors which are essential for a correct fermentation. The balanced composition of this preparation makes it a complete nourishment, enabling to obtain successful fermentations even under critical oenological situations.

COMPOSITION AND TECHNICAL CHARACTERISTICS

Ammonium biphosphate, yeast cell walls, yeast autolysates, excipient, fish gelatine, thiamine hydrochloride (vitamin B1).

DOSAGE

80 g/hL or 100 kg (maximum dose of use).
Fermoplus **Fermoplus Omega 3** supplies 14 ppm* of RAN for a dosage of 10 g/hL.

Reference: FERMOPLUS_OMEGA_3_TDS_EN_2190421_OENO_Italy

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INSTRUCTIONS FOR USE

Dissolve in must and add by pumping over.

STORAGE AND PACKAGING

Store in a cool dry place, away from direct sunlight and heat.

1 kg net packs in cartons containing 15 kg.
5 kg net bags.

*Amount obtained by spectrophotometric-enzymatic analysis.
Spectrophotometric methods are used, that separately identify the values forming RAN: Ammonium ion and nitrogen from the primary groups of alpha amino acids, organic nitrogen. The analysis of organic nitrogen, N-OPA technique, is not specific for the amino acid Proline, as it is not detectable due to the presence of secondary groups; it is also an amino acid that is not readily assimilated by the yeast. These values may differ from the results obtained using the Total Kjeldahl Nitrogen (TKN) method, which identifies all the nitrogen present. The range of error in measurement and production is +-10%.

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