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**The optimal** vitamin K2 from natural biotransformation

**Gnosis by Lesaffre** 

137 rue Gabriel Péri 59700 Marcq-en-Baro +33 (0)3 20 81 61 00 eul - FRANCE

Via Lavoratori Autobianchi, 1 20832 Desio (MB) - ITALY +39 (0)362 16 70 001







### **LEARNING** FROM NATURE

Gnosis by Lesaffre has been a pioneer in the development of vitamin K2 as Menaguinone-7 (MK-7): our first production was launched almost 20 years ago!

From the origin, our research has been focused on a unique natural microbial source of K2: the bacteria Bacillus subtilis natto.

VitaMK7<sup>®</sup> is therefore based on a proprietary microbial strain of this bacteria, deposited in DSMZ collection under the accession number DSM 17766.

Gnosis by Lesaffre production relies on an industrial patented fermentation process, which enables to maintain the naturalness and the indistinguishable potency of MK-7.



### **EMBRACING** THE CONCEPT OF **CLEAN LABEL**

"Clean label" refers to key attributes which are globally recognized and linked with transparency, wholesomeness of the ingredients and the lack of artificial/added components and allergens.

At the heart of the clean label is the demand to use ingredients with real nutritional benefits that are as close to their natural state as possible, like ingredients from natural sources, and to avoid highly processed ingredients, such as those from genetically modified organism or chemical synthesis.

#### **CLEAN**

Gluten free, Lactose free, Toxins & pesticides free, Soy free, Animal material free: VitaMK7<sup>®</sup> is the cleanest vitamin K2 as MK-7 available on the market.

# ACHIEVING THE HIGHEST LEVEL OF PURITY

### **PURE**

VitaMK7<sup>®</sup> is a natural vitamin K2 as MK-7 with the highest level of purity: it contains >99% of all-trans Menaguinone7 (MK-7), the only active form of vitamin K2, and no trace of unknown impurities.

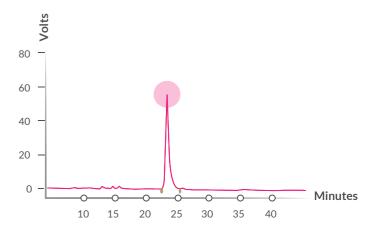
The purity of vitamin K2 is dual: it measured by natural vitamin K2 from fermentation vs. synthetic i) The isomeric purity, i.e. the percentage of all-trans vitamin K2. active isomer (the active form) vs. cis isomer Gnosis by Lesaffre development of VitaMK7® has (inactive); aimed to achieve the highest purity. VitaMK7® achieves i) >99% of all-trans MK-7 and ii) almost no and ii) The general purity, i.e. the percentage of substances which are not vitamin K2 as MK-7 and impurities. The main "impurity" is actually vitamin K2 as MK-6, a natural unharmful marker of the result from the manufacturing process. These "general" impurities are therefore different for fermentation process.

## **RELYING ON EUROPEAN MANUFACTURING**

Gnosis by Lesaffre is the sole European producer of Vitamin K2 as MK-7, where the entire supply chain, from the raw material to the finished product (both powder & oil, whatever the grade), is without intermediates or brokers. The production process is carried out in our own approved cGMP plant in compliance with the strictest guality rules, ISO and HACCP quality systems.

Moreover, we implemented a thorough Quality Management System which enables complete transparency and we offer our customers and partners the possibility to visit the 133.000 m<sup>2</sup> plant and control every step of the vitaMK7<sup>®</sup> manufacturing process.





Recently the plant was equipped with a new 120 m<sup>3</sup> fermentation line entirely dedicated to the production of vitaMK7<sup>®</sup>.



#### **TRUSTWORTHY**

At Gnosis by Lesaffre, our relationships with customers are anchored by transparency, accessibility and confidentiality. This is the reason why we offer them the opportunity to control every step of the manufacturing process of VitaMK7