

The true >99% *all-trans* composition

Newsletter

VitaMK7[®] PULSE

4th issue 2019

In this last issue of year 2019 we wish to highlight vitaMK7[®] main features: its purity, clean label and *all-trans* configuration. These properties are achieved through the naturally fermented production process and the right manufacturing facility - Pisticci Operations - where the controlled supply chain and the strict rules followed allow us to obtain a really high quality source of vitamin K2 as MK7.

Read this newsletter and find out how VitaMK7[®] can be versatile!

Silvia Pisoni
Marketing Manager

The versatility of vitaMK7[®]: discover the different forms in the new infographic

If you wish to assume a good source of vitamin K2 as MK7 in the form of hard and soft gelatine capsules, or you prefer to get it in other oral solid forms or even with food, it's just your choice!

VitaMK7[®], the naturally fermented, pure and stable vitamin k2 as MK7 produced by Gnosis by Lesaffre in its European manufacturing plant, has a wide range of administration possibilities.

Fortified dairy products represent an optimum way to improve the nutritional status of the fat-soluble vitamins, such as Vitamin K2 as MK7. Dairy products have a relevant lipid components that ranges from 1-2% of skimmed milk to 9% in some fatty concentrated yogurts. (Ref: Nutrafoods (2019) - Bioavailability of menaquinone-7 in milk formulation. Comparison of different solubilization techniques)

VitaMK7[®] is so versatile to meet consumers' needs and requirements.

Request the new infographic to discover the many forms suitable for VitaMK7[®]!



Pisticci Operation is the plant of our vitaMK7[®]

VitaMK7[®] is today one of the top ingredients provided from Gnosis by Lesaffre.

It is produced within Gnosis reliable manufacturing plant of **Pisticci Operations**, where manufacturing excellence is achieved through the application of good science and minimizing the environmental footprint. Recently equipped with a **120 m3 fermentation** line entirely dedicated to the production of vitaMK7[®], Pisticci Operations is FDA and AIFA approved, with cGMP, HACCP, ISO 22000, Kosher, Halal certifications.



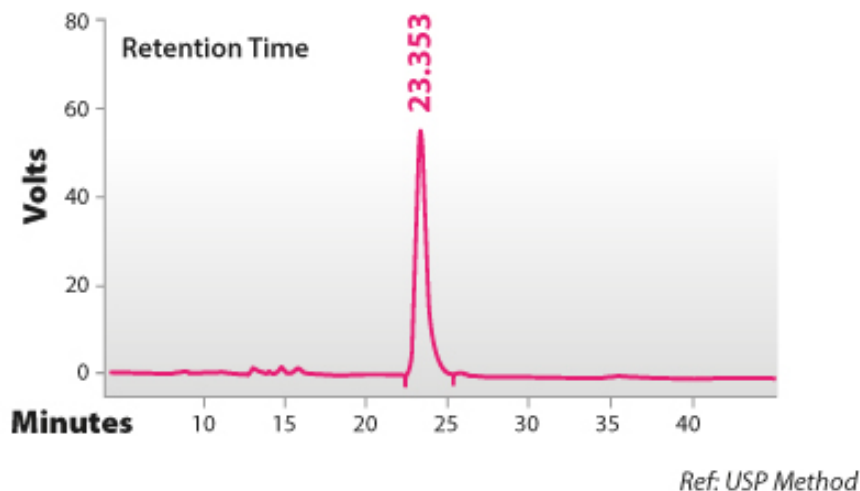
Naturally fermented, pure and *all-trans*: this is vitaMK7®

Gnosis by Lesaffre has been a pioneer in vitamin K2 as MK7: from the first development to the industrial manufacturing of naturally fermented *all-trans* MK7, **Gnosis has simply learned from nature how to create a proprietary fermentation-derived method of production based on *Bacillus subtilis* natto, used for hundreds of years by the Japanese people in natto food.** Nowadays, the fermentation and chemical productions of menaquinone-7 coexist but - excluding guesswork and marketing speculation - a fermentative process from *Bacillus subtilis* natto is the first choice.

All the clinical trials showing the outcome of K2 as MK7 in bone and cardiovascular health were performed with Vitamin K2 as MK7 from fermentation through *Bacillus subtilis* natto.

VitaMK7® has a very high content of *all-trans* MK7, more than 99%, much higher than the synthetic ones. Through the gentle and effective purification process, the content of *all-trans* MK7 is preserved avoiding unpleasant possible degradation and isomerization processes, visible in poor fermentation-derived products.

Isomeric purity Identification of **vitaMK7®** by HPLC analysis



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VitaMK7



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