

Pure and stable MK7

VitaMK7[®] PULSE

4th Issue 2017

In western population vitamin K2 deficiency seems to be common. By increasing the regular intake of vitamin K2 in the general population, we may reduce worldwide healthcare expenditure related to bone and cardiovascular health.

In this scenario, it is important to look for products containing high quality vitamin K2. A new recently published book makes the point on the different sources of menaquinone-7 as MK7, showing why vitaMK7[®] is today the real all-trans, pure and active MK7 in the market.

Do not miss this opportunity to learn more about vitamin K2 as MK7!

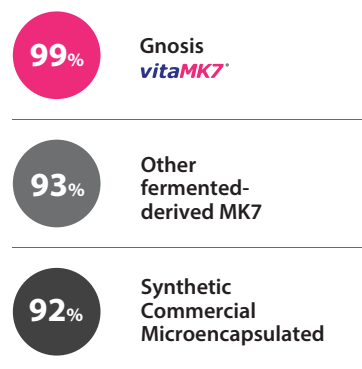
Silvia Pisoni
Marketing Manager

vitaMK7[®] : key focus on MK7 purity

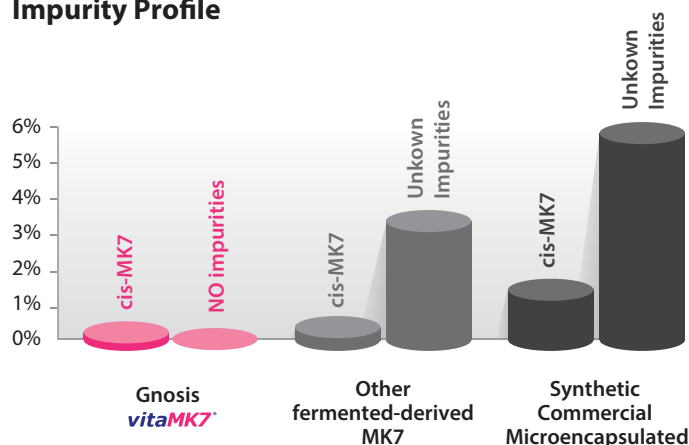
Advanced chemical analyses can reveal the real isomeric purity of a marketed MK7 and unveil the origin of the products, produced by natural (fermentative) or synthetic process. The same type of production process leaves an indelible mark on the final MK7 product.

The presence of significant percentages of cis analogs and unnatural impurities is characteristic of the synthetic MK7 while the fermentation-derived form generally has a cleaner profile with traces of MK6.

All-trans MK7



Impurity Profile



vitaMK7[®] offers unquestionable evidence of high purity:

- The highest purity of MK7, more than 99% of all-trans MK7 assay
- The lowest content of cis isomer
- The lowest content of MK6 and no trace of unknown and unidentified chemical impurities



The point on MK6 marker

MK6 is a natural byproduct of the biofermentative process found in foods, also produced by intestinal bacteria and recovered in human tissues. MK6 is recognized as a marker of natural production and is regarded by chemical analysts as a tangible proof of fermentation-derived origin. All the clinical trials were performed with Vitamin K2 as MK7 from *Bacillus subtilis natto* (minor extent of MK6) as it is present in the natto food.

Thanks to the clean profile, vitaMK7® shows excellent stability data, a recovery rate of MK7 equal to 99% and 100% in formulations with calcium carbonate and calcium citrate, respectively, even when subjected to stressed conditions such as 40° C/75% RH.

New K2 Book makes the point on MK7 quality



A new book written by Prof. Gian Paolo Littarru and titled "Vitamin K2: Facts and Perspectives in Biology and Medicine" makes the point of the major scientific data achieved on menaquinone-7 (MK7), with a glimpse on the new emerging biochemical roles and applications, and, for the first time, it traces the major aspects and advantages of the natural-derived MK7 from *Bacillus subtilis natto*, such as Gnosis vitaMK7®.

Prof. Littarru devotes a chapter to the comparison of the different aspects of the various raw materials available, fermentation and synthetic-derived, including the all-trans and the impurity profile and cites the published studies that Littarru's research group have carried out on vitaMK7®. The fermentation-derived vitaMK7® is the highest pure MK7, with more than 99% of all-trans MK7 assay, preserved during all phases of production through rigorous quality controls.

Among the researchers involved, Prof. Luca Tiano - Associate Professor of Biochemistry, Department of Life and Environmental Sciences, Polytechnic University of the Marche (Italy) - personally presented the book during the latest edition of SupplySide West Tradeshow in Las Vegas.

VitaMK7®'s added values:



Vegan



Vegetarian



GMO Free



Soy Free



Solvent Free



Metal Free



Gluten Free



Lactose free

Gnosis-bio YouTube Channel

Take a minute to watch the new Gnosis Corporate Video and its core values:



Incoming Events 2017

December 14th - 16th



The Venetian
Las Vegas, USA
Booth #7060

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Natural vitamin k2 as MK7



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Manufacturers should check local regulatory status of any claims according to the intended use of their product.

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