

The right

vitaMK7[®]
Natural vitamin k2 as MK7

Newsletter

VitaMK7[®] PULSE

2nd Issue 2016

VitaMK7[®], exclusively manufactured by Gnosis, is the “real natural” active isomer of vitamin K2, increasing strength in global markets. We have first customers in Australian market and we are raising our success rate day by day, achieving results and new markets.

VitaMK7[®] has got another greater validation since it became the USP Standard Reference: vitaMK7[®] is produced under the most stringent cGMP procedures and it is used for all the quality control analyses required for the Monograph.

Paolo Malesani
Commercial Director

VitaMK7[®] & USP and TGA REQUIREMENTS

The first Official Compendia Monograph of Dietary Supplement for Vitamin K2 as Menaquinone-7 (MK-7), published in USP 38-NF33 First Supplement, effective from August 1st, 2015, defines high quality standards for an optimal Vitamin K2 ingredient, made up of *Bacillus subtilis* natto extract of Menaquinone-7.

United States Pharmacopeial Convention issued three specific Monographs:

1. Menaquinone-7
2. *Bacillus subtilis* sub. Subtilis Menaquinone extract
3. Menaquinone-7 Preparation

This is a real milestone because it has been created an established USP monograph recognized for Vitamin K2 as MK7 that makes available a unified reference for the industry to accurately identify the product in question.

On the same topic, in August 2015, the Australian Health Authority - TGA (Therapeutic Goods Administration) published a note recognizing that the USP Menaquinone-7 provides the guidance of the quality expected for Vitamin K2 products.

Gnosis solely contributed to the preparation of the above monographs working closely with different teams at USP and is already supplying USP with the Vitamin K2 Standard reference.

Know more about USP



The United States Pharmacopeia and The National Formulary (USP-NF) is a book of public pharmacopeial standards for chemical and biological drug substances, dosage forms, compounded preparations, excipients, medical devices, and dietary supplements.



Australian Government

Department of Health and Ageing
Therapeutic Goods Administration

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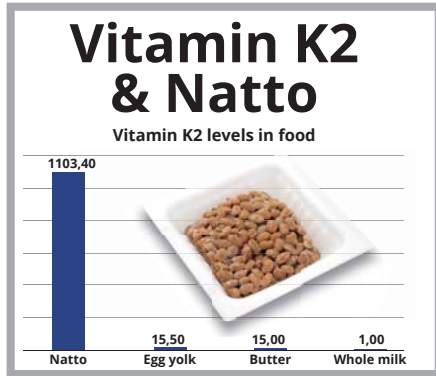
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Gnosis' Vitamin K2 from Natto tradition to the modern nutritional supplement

Natto is a traditional Japanese fermented soybean food, which is produced and consumed mainly in Japan as a dietary supplement source of Vitamin K2.



While its origin is pretty unknown, with at least five charming theories, it is reported to have a history of dietary consumption in Japan dating back at least 1,000 years to the days of ancient samurais, whose daily diet included natto because they believed it increased their strength and reaction time in battle. *Bacillus subtilis spp* natto (briefly B. natto), a subspecies of *Bacillus subtilis* was isolated for the first time from Natto food and is the only one used for natto fermentation.

Clinical trials found out that the consumption of Japanese fermented soybeans natto indicated a statistically significant health benefits increase, offers a powerful protective effect against osteoporosis and at the same time, protects the cardiovascular system by helping to keep calcium out of the arterial walls.

Since 2005 Gnosis is a leader in the high yield production and supply of naturally derived, allergen free, solvent-free Vitamin K2 through a patented biofermentation process of *Bacillus subtilis* natto cultures. [U.S. Patent No. 7,718,407].

The industrialization method has been developed taking into consideration what occurs in Natto production in order to resemble the natural occurring Vitamin K2 present in the Japanese soybean food, making available all of the proven health benefits of Natto without the unfavorable taste and smell of Natto food.

1. T. Nagai, J.P. Tamang. Fermented soybeans and non-soybeans legume foods. J.P. Tamang, K. Kailasapathy (Eds.), Fermented foods and beverages of the world, CRC Press, Taylor & Francis Group, New York. 2010
2. Sumi H. et al. Enhancement of the fibrinolytic activity in plasma by oral administration of nattokinase. Acta Haematol. 1990
3. Sawamura, S. On the micro-organisms of natto. Bull. Coll. Agric. 1906
4. Sanders M.E. et al. Sporeformers as human probiotics: *Bacillus*, *Sporolactobacillus*, and *Brevibacillus*. Compr Rev Food Sci Food Safety 2003
5. Kaneki, M. et al. Japanese fermented soybean food as the major determinant of the large geographic difference in circulating levels of vitamin K2: possible implications for hip-fracture risk. Nutrition. 2001
6. Ikeda Y et al. Intake of fermented soybeans, natto, is associated with reduced bone loss in postmenopausal women: Japanese Population-Based Osteoporosis (JPOS) Study. J Nutr. 2006

A key reason to supplement with VitaMK7®



Of people eating modern Western diets are Vitamin K2 Deficient.

You need daily:

45 micrograms (mcg) minimally
180 mcg optimally for clinical benefits

Women & VitaMK7®

Vitamin K2 is an important nutrient for women's health in all stage of life. Most women don't need a calcium supplement, but Vitamin K2 will channel dietary calcium to the right places.



VitaMK7® tools

To request a copy, please contact:
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These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

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