

# TheraQ7™ Vitamin K2

The trusted source of natural Vitamin K2 (MK-7)

TheraQ7™ Vitamin K2 from global natural products pioneer BGG, is the most effective and safest natural vitamin K2 product (MK-7) on the world supplement-ingredient stage. Utilizing the advanced fermentation technology, BGG produces natural vitamin K2 exclusively from *Bacillus subtilis* natto, which is the only source of natural vitamin K2 approved by European Food Safety Authority (EFSA) to be used in dietary supplements and ingredients. Scientific research has revealed that Vitamin K2 (MK-7) plays an important role in osteoblastic bone formation and coronary heart disease protection.

- Pure strain species ensuring raw material safety
- High-yield strain production using advanced biotechnology
- Proprietary culture media formulation
- Organic solvent free extraction and concentration
- Stable and durable bioactivity

**100%**  
**Natural**

**Oil and Powder**  
**High MK-7 Content**



# The HIGHEST potency oil and powder on the market today



## What is Vitamin K2?

Vitamin K2 is a sub-group of vitamin K family which can be subdivided into vitamin K1, vitamin K2 and vitamin K3. Vitamin K2 consists a series of structures known as menaquinones, abbreviated with MK-x (Figure 1). Beyond its well-known role in blood clotting, recent research has revealed that vitamin K, specifically vitamin K2, also plays a vital role in maintaining healthy bones and arteries by keeping calcium in the bones and out of arteries.

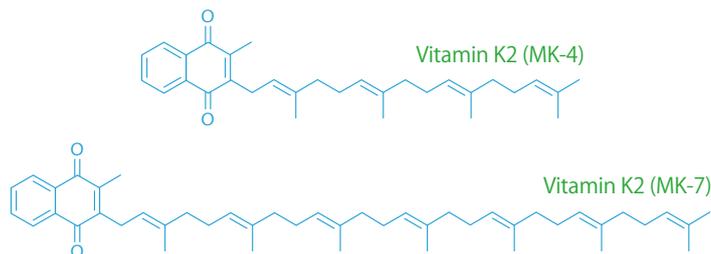


Figure 1. Chemical structures of Vitamin K2 (MK-4 and MK7).

## TheraQ7™ - High Potency Vitamin K2 (MK-7)

While vitamin K1 can be largely obtained from leafy greens and some other vegetables, vitamin K2 naturally occurs in much smaller quantities in the diet. Organ meats, egg yolks, and the Japanese condiment natto, are sources of vitamin K2. Natto is by far the richest source of the highly bioavailable form of vitamin K2 known as MK-7. Natto is the fermented soy bean which is commonly consumed in Japan. The fermented beans are recognized for their contribution to gut flora and vitamin K2 intake. The principle active component of natto is *Bacillus subtilis* natto, a bacterium capable of biosynthesis of vitamin K2 (primarily in MK-7 form) in high yield.

The *Bacillus subtilis* strain used to produce TheraQ7™ is carefully selected and cultivated by advanced biological technology to ensure the species is pure, safe, active, and high productive. By utilizing the proprietary organic solvent free extraction and concentration technologies, TheraQ7™ is produced without pollution and solvent residues, and of high potency of vitamin K2 (MK-7).

## Protecting Bone and Arterial Health with TheraQ7™

Insufficient vitamin K2 leads to decreased bone mineral density, a key factor in osteoporosis, and an excess of calcium in the arterial wall, which increases the risk of heart disease. In certain regions of Japan, a staple dish called natto or fermented soybean, frequently eaten several times a week, is uniquely rich in vitamin K2. Recent scientific examination has pinpointed vitamin K2, and in particular vitamin K2 as menaquinone-7 (MK-7), as the active ingredient in this popular eastern Japanese dish, has a supportive effect on bone quality during osteoporosis treatment. People living in the Japanese regions where this dish is eaten have several-fold greater blood levels of vitamin K2 (MK-7), accompanied by less osteoporosis and bone fractures. Scientific studies has revealed that vitamin K2 supplementation helps promote bone health<sup>1</sup> and protect from cardiovascular events.<sup>2</sup>

1. Geleijnse, J. M. et al. *J. Nutra.* **2004**, *134*, 3100-3105.

2. Knapen, M. H. et al. *Osteoporos. Int.* **2007**, *18*, 963-972.

## Health Benefits of TheraQ7™

- Bone health
- Cardiovascular health
- Liver health
- Treatment of Parkinson's disease

## TheraQ7™ Vitamin K2 Snapshot

- Natural vitamin K2 extracted from *Bacillus subtilis* natto fermentation
- Organic solvent free extraction technology
- High pure and bioavailable form of vitamin K2, menaquinone-7 (MK-7)
- Available in oil and powder forms
- Recommended dosage: 25 mg/day for adults (for 2,000 ppm spec product)

## Available Products of TheraQ7™

Form	Specification (MK-7 Content)	Package
Powder	1,000 ppm	1 kg, 5 kg in LDPE bag inside, vacuum aluminum bag outside 5 kg, 10 kg, 25 kg in aluminum drum
	1,500 ppm	
	2,000 ppm	
	4,500 ppm	
Oil	1,500 ppm	5 kg, 25 kg in aluminum drum
	2,000 ppm	
	4,500 ppm	

## Documentation Benefits

The following documents, studies and information are available upon request.

- MSDS
- Specification sheets
- CoAs
- Nutritional analysis
- Stability report

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