

TheraPrimE™ Vitamin E

The NATURAL advantage of Vitamin E

TheraPrimE™ is the most effective and highest quality product of natural-source vitamin E from global natural products pioneer BGG, who is dedicated to providing natural-source products for customers worldwide. TheraPrimE™ natural-source vitamin E is derived from soybean vegetable oil by utilizing the advanced extraction and separation technology. TheraPrimE™ natural vitamin E series products provide a wide range of manufacturer-friendly forms including alcohols, acetates and succinates for capsule, tablet and compounding applications in dietary supplement, food, and cosmetics industries.

- Comprehensive product range for a wide variety of applications
- Derived from natural sources
- Pure natural form with high potency and efficacy
- Secure, safe and stable supply
- Trusted, experienced manufacturer

100%
Natural Derived

Mixed Tocopherols
d- α -Tocopherol
d- α -Tocopheryl Acetate
d- α -Tocopheryl Acid Succinate





The NATURAL Advantage of Vitamin E

What is Vitamin E?

Vitamin E refers to a group of lipid-soluble compounds, of which α -tocopherol is the most biologically active form. Vitamin E is an important lipid-soluble antioxidant, which performs its functions as antioxidant in the glutathione peroxidase pathway, and protects cell membranes from oxidation caused by free radicals. Fighting against the effects of free radicals derived from oxygen and environmental pollutions, vitamin E reduces the rate of free radical attack on the polyunsaturated fatty acids in membrane phospholipids and at other biologically important sites.

Natural vs. Synthetic

The vitamin E found in nature is commonly known as d- α -tocopherol or R,R,R- α -tocopherol (Figure 1). TheraPrimE™ natural-source vitamin E is d- α -tocopherol primarily derived from soybean oil. The succinate and acetate esters of natural-sourced α -tocopherol are also available.

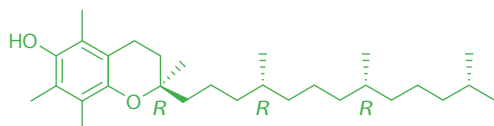


Figure 1. Chemical structure of natural alpha form of vitamin E.

Synthetic vitamin E (commonly referred to as dl- α -tocopherol), which is synthesized from petrochemicals, is a mixture of eight α -tocopherol stereoisomers in equal amounts. Only one of the eight stereoisomers, 12.5% of the total mixture, is the natural form R,R,R- α -tocopherol. The remaining seven stereoisomers have different molecular configurations, which affect how well the vitamin E is retained in the body and in turn affect its biological availability.

Scientific studies have revealed significant differences between natural-source and synthetic vitamin E, and shown that natural-source vitamin E is more efficiently retained by human body. The bioavailability of natural d- α -tocopherol is approximately twice than that of its synthetic counterpart. Simply put, the human body has a preference for natural-source vitamin E over synthetic vitamin E.

TheraPrimE™ - Solution of Your Natural VE Formulations

BGG's TheraPrimE™ natural-source vitamin E products parallel the vitamin E found in our mother nature. They are available either as d- α -tocopherol or a mixture of all four d-isomers of natural tocopherols (α -, β -, γ -, δ -). Using proprietary technology, BGG is dedicated to providing natural-source products for customers worldwide. You can be assured that BGG produces only the highest quality natural-source vitamin E.

Product	Minimum Content (mg/g)	IU/g	Physical Form	Standard
Mixed Tocopherols	500	N/A	Oil	EP, USP, FCC
	700	N/A	Oil	
	900	N/A	Oil	
	300	N/A	Powder	
	500	N/A	Powder	
d- α -Tocopherol	672	1000	Oil	EP, USP, FCC
	738	1100	Oil	
	805	1200	Oil	
	873	1300	Oil	
	940	1400	Oil	
	336	500	Powder	
	470	700	Powder	
d- α -Tocopheryl Acetate	736	1000	Oil	EP, USP, FCC
	810	1100	Oil	
	884	1200	Oil	
	957	1300	Oil	
	1030	1400	Oil	
	368	500	Powder	
d- α -Tocopheryl Acid Succinate	515	700	Powder	EP, USP, FCC
	990	1210	Powder	
	960	1185	Powder	

Health Benefits of TheraPrimE™

- Protecting cells from free radical damage
- Decreasing risk markers associated with certain cancers
- Reducing LDL cholesterol level
- Immune booster
- Protection against the risk of cataract formation

Documentation Benefits

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

- MSDS
- Specification sheets
- CoAs
- Nutritional analysis
- Kosher certificate
- Halal certificate

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