



 **Nutripherol**

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 **KENSING™**

Rapeseed Tocopherols—The Non-GMO, Non-Soy Choice

With a deeper understanding of health issues and transparent labeling regulations, consumers are more focused than ever on specific attributes of their products and ingredients.

One significant example of this consumer trend today is the demand for natural ingredients that are non-GMO and allergen-free. Nutripherol is the natural antioxidant that satisfies this market need. Sourced exclusively from non-GMO rapeseed in Europe, Nutripherol guarantees non-GMO status and provides effective antioxidant power without the presence of soy, allowing for a clean label.



Product Highlights

- Clean-label natural tocopherols sourced entirely from European rapeseed-00 oil
- Powerful protection from oxidative rancidity
- Vitamin E fortification
- Non-GMO origin is guaranteed
- No allergen labeling is required

Natural Tocopherols as a Leading Antioxidant

Among the leading fat-soluble antioxidants, tocopherols are found in many major oilseeds used in commercial processing. They are often used as a replacement for synthetic antioxidants, which are often associated with health conditions and are increasingly being removed from consumer products. Tocopherol's versatility has led to its use in many applications and industries, such as food and beverage, nutrition, personal care, feed, and pet food.

For a long time, soybean tocopherols have been considered the industry standard, representing a major step forward versus synthetic antioxidants. However, changes in consumer perceptions of soybean as a GMO crop and its association with food allergies have reduced its universal appeal. Nutripherol addresses these issues, providing a non-GMO, non-soy alternative.

Rapeseed: A Non-GMO Alternative to Soy

Despite a broad scientific consensus that genetically modified organism (GMO) foods pose no greater risk than conventional foods, many consumers are wary of them and demand that brands strictly limit their ingredients to non-GMO sources.

As a result of this concern, rapeseed has progressively been developed as a mainstream non-GMO edible oil. The development of rapeseed 00 with a low erucic acid content has helped enable this growth, and it is now the only variety of rapeseed grown in Europe and the exclusive source of Nutripherol.

Allergen Implications

Most food allergies are linked to a handful of foods including nuts, milk, eggs, wheat, fish, shellfish, and soy. Rapeseed is broadly considered safe from the allergy standpoint, showing only rare cases of sensitivity. Foods and other products containing rapeseed and its derivatives—such as Nutripherol—are more suitable for avoiding allergic reactions and typically do not require specific allergen labeling. This gives Nutripherol an advantage over many of its competitors.

Vitamin E Fortification

While delivering protection from oxidation of oil and fat-based products, Nutripherol also provides a considerable amount of Vitamin E fortification. Up to 40% of the tocopherol content of rapeseed is RRR-alpha tocopherol, the most natural and potent form of Vitamin E. When used in the right dosage, Nutripherol carries a dual function, protecting other fat-based ingredients from rancidity and fortifying the finished product with Vitamin E.

Four main forms of tocopherol are available in nature, including alpha-tocopherol, better known as Vitamin E, which delivers strong antioxidant performance in-vivo (in the body). On the other hand, the other forms—beta, gamma, and delta—are powerful in-vitro antioxidants used to protect other fat-based ingredients in natural preparations.



Kensing, the Top Producer of High-Quality Tocopherols

Kensing, a pioneer in the development of new sources of raw materials, is the only manufacturer in the global market to offer a full range of commercially available tocopherol sources. Kensing also produces custom blends with the optimum tocopherol profiles for its customers' applications:

Tocopherol Content (*)	Advantiox 70 and Advantiox 70 IP	Sun E 900	Nutripherol 70
Alpha	6.0 - 14.0%	60.4 - 63.8%	29.0 - 39.0%
Beta-Gamma	41 - 45%	06. - 8%	30.2 - 41.5%
Delta	15.0 - 19.0%	0.1 - 2.0%	0.5 - 4.0%

(*) Based on 70% total tocopherol concentration.

We look forward to showing how we make a difference.
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