



PrairiOX™50

Natural Mixed Tocopherols



Product Code: 300162

Country of Origin: USA

Product Description: PrairiOX™ 50 is a reddish, viscous oil with mild taste and odor, derived from edible vegetable oils (e.g. soybean, canola, sunflower) sourced from North America.

Total Tocopherols	500 mg/g min.
Alpha Tocopherol, C ₂₉ H ₅₀ O ₂	9%
Beta Tocopherol, C ₂₈ H ₄₈ O ₂	2%
Delta Tocopherol, C ₂₈ H ₄₈ O ₂	13%
Gamma Tocopherol, C ₂₇ H ₄₆ O ₂	76%

Application

PrairiOX™50 is used as a natural antioxidant in a wide variety of applications. It prevents oxidation and rancidity in oily or fat-containing products to protect flavour and color. It is intended for use as an antioxidant in dietary supplements, food products, animal products and the cosmetics and personal care industry.

The typical mixed tocopherols composition is shown above. Due to variability of vegetable oil feedstocks from which the tocopherols are derived, slight variations will be found to this typical composition.

Solubility	Insoluble in water; sparingly soluble in ethanol, miscible with organic solvents, vegetable oils and fats.		
Stability/Storage	<p>The shelf life in sealed, original containers under normal storage conditions is at least 36 months after the date of manufacture.</p> <p>Unstable when exposed to oxygen and light, particularly in the presence of oxidizing agents or in alkaline media. The product darkens slowly upon exposure to air and light. Store in tightly closed containers, cool and dry. Do not refrigerate.</p>		
Package Size	Available in 180 kg steel drums, 10 kg plastic pails or 1 kg aluminium bottles.		
Ingredients	Natural mixed tocopherols	min. 50.0 % weight/weight	
	Sunflower oil	max. 50.0 % weight/weight	
Chemical & Physical Data	Total tocopherols	min. 500 mg/g	QC194C
	Non-alpha-tocopherols	min. 400 mg/g	QC194C
	Acidity	max. 1.0 mL/g	QC239A
	Identification	pass	NF Method B
	Specific Rotation	min. +20°	FCC
	Heavy Metals	max. 10 ppm	FCC
	Lead	max. 2 ppm	AOAC 993.14
	Arsenic	max. 1 ppm	AOAC 993.14
	Total Microbial Count	< 10 cfu/g	USP 61
	Yeast	< 10 cfu/g	USP 61
	Mold	< 10 cfu/g	USP 61
	E. Coli	Neg/10 g	USP 62
	Staphylococci	Neg/10 g	USP 62
	Salmonella	Neg/10 g	USP 62
	Listeria	Neg/25 g	AOAC RI030502

Usage

For most oils and fats, the recommended concentration of tocopherols in the product will range from 100 ppm to 400 ppm on fat or oil content. For oils containing highly polyunsaturated fatty acids, tocopherol concentrations of up to 2000 ppm relative to the oil content may be necessary. It is recommended to test 3 different mixed tocopherol concentrations to determine the optimum level.

Typical Nutritional Information per 100 g of product

Energy	643 kcal/2690 kJ
Total Fat (g)	50.3 g
-Saturated Fatty Acids	8.0 g
-Monounsaturated Fatty Acids	10.9 g
-Polyunsaturated Fatty Acids	28.9 g
-Trans fat	0.1 g
Total Carbohydrates	49.6 g
Total Dietary Fiber	0.0 g
Total Sugar	0.1 g
Protein	0.1 g
Moisture (70°C/16h)	0.08 g
Ash Content (g)	<0.01 g
Cholesterol (mg)	3.4 mg
Calcium (mg)	<0.1 mg
Sodium (mg)	<0.2 mg
Potassium (mg)	<0.97 mg
Iron (mg)	<0.1 mg

Standards

PrairiOX™ 50 meets the requirements of FCC IX (Tocopherols Concentrate, Mixed, Low-alpha-Type).

Certified Kosher and Halal.

Produced in accordance with current food Good Manufacturing Practices (GMPs) in compliance with applicable parts of 21 CFR, part 110 of the Code of Federal Regulations.

Generally permitted as food additive under pertinent European food regulations (Commission Directive 95/2/EC as amended).

The U.S. FDA has generally recognized tocopherols as safe (GRAS) as a nutrient and as a chemical preservative (21 CFR, Part 182.8890 and 182.3890) when used in accordance with GMPs.

USDA Organic Compliant: Allowed as an ingredient in or on processed products labelled as “organic” or “made with organic” under section 205.605 of the USDA National Organic Program.

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