

PrairiOX™ 45P

Natural Mixed Tocopherols



Product Code: 300161
 Country of Origin: USA

Product Description: PrairiOX 45P is a cream to light tan free flowing powder with mild taste and odor, derived from edible vegetable oils (e.g. soybean, canola, sunflower) sourced from North America.

Total Tocopherols	450 mg/g min.
Alpha Tocopherol, C ₂₉ H ₅₀ O ₂	7%
Beta Tocopherol, C ₂₈ H ₄₈ O ₂	2%
Delta Tocopherol, C ₂₈ H ₄₈ O ₂	28%
Gamma Tocopherol, C ₂₇ H ₄₆ O ₂	63%

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.

Application

PrairiOX 45P 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.

Solubility	Insoluble in vegetable oils and in organic solvents, but dispersible in water.		
Stability/Storage	The shelf life in sealed, original containers under normal storage conditions is at least 18 months after the date of manufacture. 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.		
Package Size	Available in 10 kg or 1 kg plastic pails.		
Ingredients	Natural mixed tocopherols	min. 45.0 % weight/weight	
	Tapioca starch	max. 55.0 % weight/weight	
Chemical & Physical Data	Total tocopherols	min. 450 mg/g	QC-194C
	Non-alpha-tocopherols	min. 360 mg/g	QC-194C
	Acidity	max. 1.0 mL/g	QC-239A
	Identification	pass	NF Method B
	Specific Rotation	min. +20°	FCC
	Loss on Drying	max. 5.0%	QC-621
	Particle Size	95% through USS 50 mesh screen	QC-704
	Heavy Metals	max. 10 ppm	FCC
	Lead	max. 2 ppm	AOAC 993.14
	Arsenic	max. 1 ppm	AOAC 993.14
	Total Microbial Count	< 1000 cfu/g	USP 61
	Yeast	< 100 cfu/g	USP 61
	Mold	< 100 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	380 kcal/1590 kJ
	Total Fat (g)	1.2 g
	-Saturated Fatty Acids	0.5 g
	-Monounsaturated Fatty Acids	0.3 g
	-Polyunsaturated Fatty Acids	0.3 g
	-Trans fat	0.1 g
	Total Carbohydrates	92 g
	Total Dietary Fiber	0.6 g
	Total Sugar	0.3 g
	Protein	0.0 g
	Moisture (70°C/16h)	5.5 g
	Ash Content (g)	0.3 g
	Cholesterol (mg)	1.5 mg
	Calcium (mg)	<0.1 mg
Sodium (mg)	55.1 mg	
Potassium (mg)	<0.1 mg	
Iron (mg)	<0.1 mg	

Standards

PrairiOX 45P 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.

Disclaimer: The information herein is presented as true and correct. Organic Technologies certifies the information, especially the information about its products and the manufacturing process to be true and correct. Any product labelling information or references to the Code of Federal Regulations is provided as guidance only and should not be construed as a legal opinion or recommendations for final product labelling without consulting regulatory and/or legal advice. PrairiOX is a trademark owned by Organic Technologies, dba Wiley Organics Inc.

For more information on this and other Organic Technologies Nutrition & Health products, refer to our website at www.organictech.com.