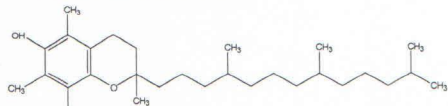
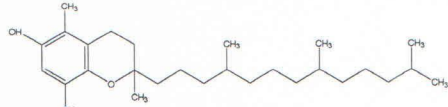
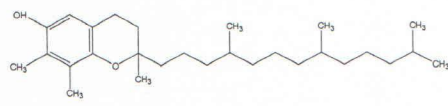
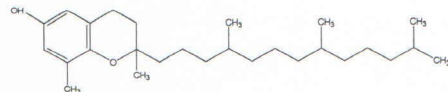


Product Name

Natural Vitamin E (Sunflower Sourced) 1000IU

General Product Information

Sunflower sourced natural vitamin E is a liquid the forms are clear, brown-red to light yellow, oily with mild taste and odor, darkens slowly on exposure to light or air. It is derived from sunflower oil deodorizer distillate. Mainly used for nutrient supplement in softgels, nutritional foods, personal care and cosmetics, etc.

Molecular structure	Name	Empirical formula	Mol weight	CAS No.
	d-alpha-tocopherol	C ₂₉ H ₅₀ O ₂	430.71	59-02-9
	d-beta-tocopherol	C ₂₈ H ₄₈ O ₂	416.68	16698-35-4
	d-gamma-tocopherol	C ₂₈ H ₄₈ O ₂	416.68	54-28-4
	d-delta-tocopherol	C ₂₇ H ₄₆ O ₂	402.65	119-13-1

Formulation Composition

Natural Vitamin E (Sunflower Sourced)	≥67.1%
Refined sunflower oil	≤32.9%

Specifications

Items	Standard requirements	Method
Total tocopherols	—	AOCS CE 8-89
D-α tocopherol	≥67.1%	AOCS CE 8-89
D-β tocopherol	≥1000IU	AOCS CE 8-89
D-γ tocopherol	—	AOCS CE 8-89
D-δ tocopherol	—	AOCS CE 8-89
Acidity	≤1.0 ml	FCC
Specific Rotation[α] _D ^{25°C}	≥+20°	FCC
Sulphated ash	≤0.1%	EP2.4.14
Solvent residue-Ethanol	≤5000 ppm	USP<467>
*Benzo(a)Pyrene	≤2 ppb	GC-MS
Heavy Metals		
*Lead	≤1mg/kg	AAS
*Arsenic	≤1mg/kg	AFS

*Cadmium	≤1mg/kg	AAS
*Mercury	≤0.1mg/kg	AFS
*Aerobic Plate Count	≤1000cfu/g	USP<61>
*Yeast And Molds	≤100cfu/g	USP<61>
*Escherichia Coli	Negative/g	USP<62>
*Salmonella	Negative/25g	USP<62>
*Staphylococcus Aureus	Negative/10g	USP<62>

Remarks: *Tested periodically to ensure the requirements are met.

Solubility

Insoluble in water; soluble in ethanol; miscible with organic solvents, vegetable oils and fats.

Allergens

Below table indicates the presence of the following allergens and products there of:

Yes	No	Allergens	Description
	x	Wheat	
	x	Other cereals contain gluten	
	x	Crustaceans	
	x	Eggs	
	x	Fish	
	x	Peanuts	
	x	Soybeans	
	x	Milk(including lactose)	
	x	Nuts	
	x	Celery	
	x	Mustard	
	x	Sesame seeds	
	x	Sulphur dioxide and sulphites(>10ppm)	
	x	Lupin	
	x	Molluscs	

According to: (EU) NO 1169/2011 and FDA“FALCPA”.

Packaging, Storage and Shelf Life

20/25/50/200kg steel drum.

Store in tightly closed containers,protect from light and oxygen. Aafter opening, use up immediately or seal with nitrogen for its further storage.

The shelf life in sealed, original containers under normal storage conditions is at least 24 months after 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.