

Vitapherole® AOX 30 Non GMO
(Antioxidant System)**Names**

Chemical name: mixed tocopherols, ascorbyl palmitate, phospholipids

Antioxidant: E-306, E-304, E-322

INCI name: tocopherol, ascorbyl palmitate, lecithin.

Identification

<u>Name</u>	<u>Empirical formula</u>	<u>Molecular weight</u>	<u>CAS</u>
d-alpha tocopherol	C ₂₉ H ₅₀ O ₂	430.69	59-02-9
d-beta tocopherol	C ₂₈ H ₄₈ O ₂	416.66	16698-35-4
d-gamma tocopherol	C ₂₈ H ₄₈ O ₂	416.66	54-28-4
d-delta tocopherol	C ₂₇ H ₄₆ O ₂	402.64	119-13-1
Ascorbyl palmitate	C ₂₂ H ₄₆ O ₂	414.53	137-66-6
Lecithin	Not available	Not available	8002-43-5

Standards

This product complies with FCC, JECFA and Regulation (EC) N° 852/2004.

Kosher (“Circle U”) and Halal certified. Produced under FSSC 22000 standard.

Non GMO (IP). It is not subjected to be labelled under Regulations (EU) 1829/2003 and 1830/2003.

This product does not contain allergens according to Regulation (EU) N°1169/2011 so; it is not required labelling declaration as being potential allergen.

Mixed tocopherols are generally recognized as safe (GRAS) by FDA (21 CFR Part 182, Sec.182.8890 and 182.3890).

Ingredients/Composition

- Mixed tocopherols
- Ascorbyl palmitate
- Sunflower lecithin

Quality Control Assay

(Parameters analyzed per batch)

Appearance:	Light brown viscous oil
Taste:	Mild, characteristic
Odour:	Typical vegetable oil
Viscosity (60°C):	1000 – 2400 cP
Specific gravity/Density (25°C):	0.90 – 0.98 g/cm ³

Vitapherole® AOX 30 Non GMO
(Antioxidant System)

Benzo (a) pyrene: < 2 ppb (As per EC Regulation (EU) 835/2011)

**Sum of Benzo(a)pyrene,
Benzo(a)anthracene,
Benzo(b)fluoranthene and Chrysene:** < 10 ppb (As per EC Regulation (EU) 835/2011)

(Parameters analyzed periodically based on statistical data)

(These parameters are analyzed separately in the ingredients present in the product)

Specific rotation: $(\alpha)_D^{25}$. Min. + 20° (for 100% concentration)
(As per Commission Directive 2008/84/EC, Commission Regulation (EU) N° 231/2012 and JECFA)

Heavy metals: Pb: <0.1ppm Hg:<0.1ppm Cd: <1ppm As: <1ppm
(As per Commission Regulation (EC) N° 629/2008, amending Regulation (EC) N° 1881/2006). Complies also with Commission Regulation (EU) N° 231/2012 and JECFA limits.

Microbiological tests:	<i>E. Coli:</i>	None cfu/g
(In compliance with EP and RD 3177/83)	<i>Salmonella:</i>	None cfu/25g
	<i>Listeria Monocytogenes:</i>	None cfu/10 g
	<i>Shigella:</i>	None cfu/10 g
	<i>Clostridium Perfringens:</i>	None cfu/g
	<i>Staphylococcus Aureus:</i>	None cfu/g
	<i>Enterobacteriaceae:</i>	max 100 cfu/g
	<i>Total Aerobic Count:</i>	max 1000 cfu/g
	<i>Yeast & Moulds:</i>	max 100 cfu/g

Sulphated ashes: 0.1 % max
(In compliance with Directive 2008/84/EC, Commission Regulation (EU) N° 231/2012 and JECFA)

Residual solvents: In compliance with limits established in EP and USP for Class I solvents. This product meets as well Directive 2009/32/EC.

Dioxins:	- Sum of dioxins (WHO-PCDD/F-TEQ)	0,75 pg/g fat
	- Sum of dioxins and dioxin-like PCBS (WHO-PCDD/F-PCB-TEQ)	1, 25 pg/g fat
	- Sum of PCB28, PCB52, PCB101, PCB138, PCB153 and PCB180 (ICES – 6)	40 ng/g fat

(In compliance with Commission Regulation (EU) N° 1259/2011)

Pesticides: In compliance with Regulation (EC) N° 396/2005, amending Council Directive 91/414/EEC, and according to current European Pharmacopoeia (EP).

Properties and Conditions

Solubility: Insoluble in water. Soluble in ethanol, animal fats and vegetable oils, essential and mineral oils. Miscible with organic.

Vitapherole® AOX 30 Non GMO
(Antioxidant System)

Storage: Ambient temperature. Nitrogen blanketing and protection from light, moisture and air. Store in tightly closed containers.

Shelf life: 12 months from packaging date (unopened).

Packaging: 20 kg containers are supplied for this product.
(In compliance with Commission Regulation (EU) N° 10/2011 and FDA 21 CFR)

Labelling: All products produced using “Vitapherole® AOX 30 Non GMO” may be labelled as “natural source Vitamin E”.

The product is in compliance with Directive 2000/13/EC regarding labelling of foodstuffs and with Regulation (EC) N° 1223/2009 on cosmetic products (Art.19 Labelling).

Uses: “Vitapherole® AOX 30 Non GMO” is a natural antioxidant widely used in food and cosmetic industries to avoid the negative effects of oxidation.

Dosage information:

We recommend testing with several different amounts of “Vitapherole® AOX 30 Non GMO” between 300 and 2000 ppm, which is equivalent to 0.03 to 0.2 % based on the fat content.

This product is permitted as “food additive” under Regulation (EC) N° 1333/2008 and Commission Regulation (EU) N° 231/2012.

“Vitapherole® AOX 30 Non GMO” may be used in the manufacturing of *food supplements* according to Commission Regulation (EC) N° 1170/2009 and *cosmetics* as per Regulation (EC) N° 1223/2009.

This product has not been irradiated at any point during the manufacturing process.

Other information

All orders and samples requested will be sent together with an Analysis Certificate and Material Safety Data Sheet. Contact us through our fax: +34 925 851021; tel: +34 925 851013; e-mail: quality@vitaenaturals.com or through our web-site at: www.vitaenaturals.com and your request will be attended to by our local representative.

All information contained here is intended to be accurate. Anyway, this document is provided for your guidance only. We recommend testing the product for your particular purpose, prior to be used in the industrial process.