

# **Product Technical Dossier**

Product	Vitamin E (DL-Alpha Tocopheryl) Acetate Powder 50% CWS (33.56% active vit E)
CCL Product Code	P2218

### Specification Details

	Specification	
Identification (A B C)	Positive	
Assay	50% DL-Alpha Tocopheryl Acetate Powder providing on average 33.56% vitamin E (a-TE)	
Appearance	Free Flowing Powder	
Colour	Almost White to White	
Aroma	Characteristic	
Flavour	Characteristic	
	100% pass 20 Mesh	
Sieve Analysis % passed	Min 95% Pass 40 Mesh	
	Max 25% Pass 120 Mesh	
Loss on Drying	Max 5%	
Bulk Density	0.4~0.5 g/cm <sup>3</sup>	
Tapped Density	0.5~0.6 g/cm <sup>3</sup>	

## Microbiological Limits

Total Viable Count	Max 1,000cfu/g
Yeasts & Moulds	Max 100cfu/g
Enterobacteria	Max 10 cfu/g
E. Coli	Negative/10g
Salmonella	Negative/25g
Staphylococcus aureus	Negative/10g

### **Heavy Metal Limits**

Lead (Pb)	Max 2ppm
Cadmium (Cd)	Max 1ppm
Mercury (Hg)	Max 0.1ppm
Arsenic (As)	Max 3ppm

Product Code: P2218 Version: 16 Page 1 of 9

Committed to meeting quality standards. BRC Food Safety . FEMAS . FSMA . Informed Manufacturer. Soil Association Organic . Halal . Kosher .









### Additional Technical Information

Raw Material Full Botanical / Chemical Name	DL-Alpha-Tocopheryl Acetate Powder 50% CWS	
The material is Food Grade	Yes	
Country of Origin	China	
Country of Manufacture	China	
Solubility in Alcohol	Not soluble	
Solubility in Water	Soluble in water (20°C)	
Average Molecular weight	472.75	
Molecular Formula	C <sub>31</sub> H <sub>52</sub> O <sub>3</sub>	
Molecular Structure (image)		
CAS Number	7695-91-2	
EC/EINECS Number	231-710-0	
Shelf Life from Date of Manufacture	Minimum 2 Years	
Pharmacopeia Standard Used	USP / EP	
Suitable for Vegetarians?	Yes	
Suitable for Vegans?	Yes	
Storage Conditions	Store at room temperature, and protect from light, heat, oxygen, and moisture.	

## Composition Origin, Function and Percentages

Ingredients	Function	% composition	Source
DL-alpha-Tocopheryl Acetate	Antioxidant	50%	Synthetic
Modified Food Starch	Carrier	30-50%	Corn
Maltodextrin	Carrier	0-20%	Corn
Silicon Dioxide	Anti-Caking Agent	1-3%	Synthetic

Product Code: P2218 Version: 16 Page 2 of 9

Committed to meeting quality standards. BRC Food Safety . FEMAS . FSMA . Informed Manufacturer. Soil Association Organic . Halal . Kosher .









#### **Nutritional Data**

Test	Value per 100g	Per 1g
Energy kJ / Kcal	778 KJ / 185 Kcal	8kJ/2kcal
Fat (g)	0 g	0.0g
Carbohydrate (g)	45.1 g	0.5g
-of which sugar	7.7g	0.08g
Fibre (g)	0 g	0.0g
Protein (g)	0.6 g	<0.1g
Salt (g)	< 0.01g	<0.01g
Vitamin E (a-alpha tocopherol equivalents)	33,560mg	335.6mg
Vitamin E	50,000 IU	500 IU

Vitamin E calculated using the following conversion:

1 mg of Vitamin E (d-alpha tocopherol equivalents) = 1.49mg of dl-alpha-tocopherol acetate.

Please note that surveillance testing may mean that not all the parameters stated on this specification are tested for every batch.

The allergen information is supplied by the manufacturer, we have not tested for each individual allergen to ensure they are not present. The information given is based on a documented risk assessment and is accurate to the best of our knowledge. If you intend to make a voluntary "free from" claim on your pack, additional testing may need to be carried out. For technical and labelling guidance, you should always speak to the competent authority for the market or member state in which the final products are placed.

Product Code: P2218 Version: 16 Page 3 of 9

Committed to meeting quality standards. BRC Food Safety . FEMAS . FSMA . Informed Manufacturer. Soil Association

Organic . Halal . Kosher .









Allergens	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross- contamination? YES/NO or N/A
Peanuts and Peanut Derivatives (including possible cross contamination)	No	No	N/A
Nut and Nut Derivatives Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoiesis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)	No	No	N/A
Sesame Seeds and Sesame Seed Derivatives	No	No	N/A
Milk and Milk Derivatives (including lactose)	No	No	N/A
Egg and Egg Derivatives	No	No	N/A
Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITHGluten (wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barleygrass)	No	No	N/A
Soya and Soya Derivatives	No	No	N/A
Lupin and Lupin Derivatives	No	No	N/A
Mustard and Mustard Derivatives	No	No	N/A
Celery or Celery Derivatives (including Celeriac)	No	No	N/A
Fish and Fish Derivatives	No	No	N/A
Molluscs and their Derivatives	No	No	N/A
Crustaceans and their Derivatives	No	No	N/A
Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	No	No	N/A

Product Code: P2218 Version: 16 Page 4 of 9

Committed to meeting quality standards. BRC Food Safety . FEMAS . FSMA . Informed Manufacturer. Soil Association Organic . Halal . Kosher .









Additives / Contaminants / Dietary Requirements / Intolerances	Product Contains YES/NO	Listed Item on Site at Manufacturer YES/NO	Where applicable, is there risk of cross- contamination? YES/NO or N/A
Additives / E Numbers	Yes	Yes	Ingredients
Antioxidants	Yes	Yes	Vitamin E
Ethylene Oxide	No	No	N/A
Gelatine	No	No	N/A
Flavourings (Artificial / Nature Identical / Natural / Smoked)	No	No	N/A
Maize / Corn and any Derivatives	Yes	Yes	Ingredients
Legumes / Pulses	No	No	N/A
Rice and Rice Derivatives	No	No	N/A
Added Salt	No	No	N/A
Added Sugar / artificial or natural sweeteners	No	No	N/A
Aspartame	No	No	N/A
BHA / BHT (E320 / E321)	No	No	N/A
Caffeine	No	No	N/A
Colours (Artificial / Nature Identical / Natural / Smoked)	No	No	N/A
Dextrose	No	No	N/A
other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	No	No	N/A
Kiwi fruit	No	No	N/A
Polyols (sugar alcohols)	No	No	N/A
Grapefruit	No	No	N/A
Sorbic Acid (E200, E203)	No	No	N/A
Any other Preservatives	No	No	N/A
Ethanol	No	No	N/A
Honey	No	No	N/A
Lactose	No	No	N/A
Yeast and Yeast Derivatives	No	No	N/A
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	N/A
Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	N/A

Product Code: P2218 Version: 16 Page 5 of 9

Committed to meeting quality standards. BRC Food Safety . FEMAS . FSMA . Informed Manufacturer. Soil Association Organic . Halal . Kosher .









# Compliance Statements

Confirmation of BSE / TSE Status This is to certify that this product complies with all relevant current UK and EU Legislative requirements in regard to Transmissible Spongiform Encephalopathies (TSE) and Bovine Spongiform Encephalopathy (BSE) for human food, and so is free of TSE/BSE.	Yes
This is also to certify that, during the course of their manufacture, the above-mentioned product did not come into contact with any materials, which could be derived from TSE/BSE risk materials.	Yes
Confirmation of GM Status  This is to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations.	Yes
Confirmation of Non-Irradiation Status  This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives.	Yes
Confirmation of Nandrolone Status  This is to certify that this product, whole or in part, has not come into contact with Nandrolone or any of its precursors in any way.	Yes
Confirmation of IOC Product Status  This is to certify that this product, whole or in part, has not come into contact with any product/s, which is banned by the IOC (International Olympics Committee) and or WADA.	Yes
Confirmation of Animal Testing Status  This is to certify that all the products sold by Cambridge Commodities have not been tested on animals in any part of its manufacture in accordance with current regulations.	Yes
Confirmation of Pesticides Status  This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.	Yes
Confirmation of Nanoparticles Status This is to certify that unless otherwise stated, the above-mentioned product is free of nanoparticles. Commission Recommendation, defines as follows: "Nanomaterial means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm".	Yes
Packaging Status We hereby certify that the packaging used in the above-mentioned material conforms to EU regulations and subsequent amendments on food grade packaging	Yes
Confirmation of PAH status  This is to certify that the above-mentioned product complies with the max PAH limits set by the EU regulations	Yes

Product Code: P2218 Version: 16 Page 6 of 9

Committed to meeting quality standards. BRC Food Safety . FEMAS . FSMA . Informed Manufacturer. Soil Association Organic . Halal . Kosher .

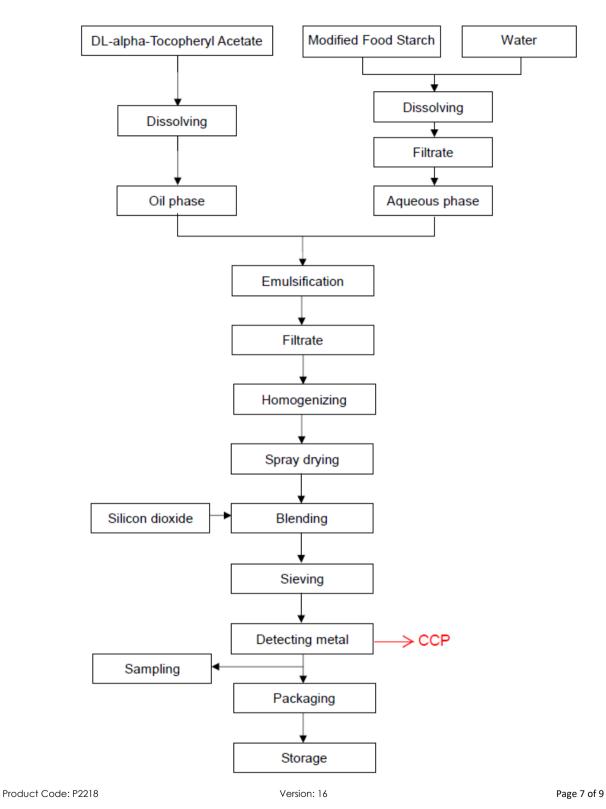








### **Product Flow Chart**



Committed to meeting quality standards. BRC Food Safety . FEMAS . FSMA . Informed Manufacturer. Soil Association Organic . Halal . Kosher .





### Material Safety Data Sheet

To download this product's material safety data sheet, please click <u>here</u> and search for the Cambridge Commodities product code. If there is no MSDS available, please follow the on-screen instructions to request one.

The Information provided in this document is subject to change and the batch specific certificate of analysis should always be referenced.

To be used as per local legislation.

# Change History

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	Updated to new format	No
3	Added conforms to additives section for EC 231/2012. Updated to new header and added product name to the top of the document.	No
4	Shelf Life updated to Minimum 2 Years (Batch Specific) from 2 years	No
5	Added: solubility in water, Bulk and tap density and changed sieve pass through percentages to conform to supplier's specification.  Amended source to correct historic clerical error.	Yes
6	Raw material full name has been changed from "DL-Alpha- Tocopherol Acetate Powder 50% CWS" to "DL-Alpha-Tocopheryl Acetate Powder 50% CWS" to correct historic clerical error.	No
7	Removed '50%' from product name, changed limit/range/specification from 'NLT 50%' to '50% DL-Alpha Tocopheryl Acetate Powder providing on average 33.56% vitamin E (a-TE)' to provide a better description and added nutritional information.	Yes
8	Updated colour and odour	No
9	Changed Flavour/taste from 'characteristic' to 'no taste'.	No
10	Added compound ingredient functions.	No
11	Amended the following: Sieve analysis from Max: 40% through 120 Mesh to Max 25% Pass 120 Mesh, Bulk Density from 0.4 g/cm³ to Bulk Density Approx. 0.4 g/cm³, Tapped Density from 0.5 g/cm³ to Tapped Density Approx. 0.5 g/cm³, E. Coli from Negative/25g to E. Coli Negative/10g. Added the following specifications: Sieve Analysis % passed 100% pass 20 Mesh, Staphylococcus aureus Negative/10g, Pseudomonas aeruginosa Negative/10g. Added Molecular Structure (image). General reformat.	Yes
12	Updated nutritional information.	Yes
13	Amended nutritional data which was wrong due to clerical error.	Yes

Product Code: P2218 Version: 16 Page 8 of 9

Committed to meeting quality standards. BRC Food Safety . FEMAS . FSMA . Informed Manufacturer. Soil Association
Organic . Halal . Kosher .









14	Changes:  • Bulk Density from Approx. 0.4 g/cm3 to 0.4 ~0.5g/cm³  • Tapped Density from Approx. 0.5 g/cm3 to 0.5~0.6 g/cm³	Yes
15	Updated Identification with (A B C)	Yes
16	Removed FCC from pharmacopeia used Removed Pseudomonas aeruginosa specification Updated food additive table Updated composition table – modified food starch from 49% to 30-50%, added Maltodextrin 0-20%, Silicon Dioxide from 1% to 1-3%	Yes

# **Document Approval**

Originator		Approver
Anne Stevens  Quality Administrator	Anne Stevens X 14/12/2023 14.41	C White Senior Quality Specialist ** 15/12/2023 09:12

Product Code: P2218 Version: 16 Page 9 of 9

Committed to meeting quality standards. BRC Food Safety . FEMAS . FSMA . Informed Manufacturer. Soil Association Organic . Halal . Kosher .





