

Product Technical Dossier

Product	Vitamin K2 MK-7 Powder (Natural 2000ppm) Microencapsulated
CCL Product Code	P17146

Specification Details

	Specification
Identification	Positive
Appearance	Powder
Color	Light Yellow
Aroma	Characteristic
Flavor	Characteristic

Physical-Chemical Limits

	Specification			Additional Info
	Min	Max	Unit	
Assay	2000.0000		ppm	(HPLC) Vitamin K2 (MK-7)
Loss on drying		5.0000	%	
Ash content		3.0000	%	



Microbiological Limits

Parameter	Max	Unit
Total Viable Count	1000.0	CFU/g
Yeasts and Moulds	100.0	CFU/g
Escherichia coli	3.0	MPN/g
Salmonella	Negative/25g	
Total coliform	3.0	MPN/g
Staphylococcus aureus	Negative/25g	/50 g

Heavy Metal Limits

Parameter	Max	Unit
Lead (Pb)	0.1	mg/kg
Cadmium (Cd)	0.1	mg/kg
Mercury (Hg)	0.05	mg/kg
Arsenic (As)	0.1	mg/kg

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Additional Technical Information

Full botanical/chemical name	Vitamin K2 (MK-7)
The material is food grade	Yes
Country of Origin	China
Country of Manufacture	China
Solubility in water	Partially dispersed
Average molecular weight	649.0
Molecular formula	C ₄₆ H ₆₄ O ₂
CAS number	2124-57-4
Shelf life from date of manufacture	Min 2 Years
Suitable for Vegetarians	Yes
Suitable for Vegans	Yes
Storage Conditions	This material is to be stored in a tightly sealed bag/container and to be kept in a cool place away from moisture and direct sunlight.



Composition Origin, Function and Percentages

Ingredients	Function	%	Source
Vitamin K (menaquinone)	INGREDIENT	0.20-0.22	Soybean
Medium Chain Triglycerides	ADDITIVE	0-10	Coconut
Corn starch	ADDITIVE	0-50	Corn
Sugar	ADDITIVE	0-50	Sugarcane
Starch sodium octenyl succinate	ADDITIVE	0-30	Corn
Arabic Gum (E414)	ADDITIVE	0-30	Acacia tree
Alpha tocopherol	ADDITIVE	0-1	

Nutritional values

Test	Value per 100g	unit
Energy	1506.2400	kJ/100g
Calories	360.0000	kcal/100g
Fat	5.5000	g/100g
Saturated fat	5.0000	g/100g
Unsaturated fat (02. Fats)	0.5000	g/100g
Carbohydrate	60.5000	g/100g
Sugars	30.0000	g/100g
Fibre	17.0000	g/100g
Protein	0.0000	g/100g
Salt	0.1250	g/100g
Vitamin K2 or Menaquinone-4	200.0000	µg/100g



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.

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Allergens and Food Intolerances

Allergens	Product Contains YES/NO	Handled at Manufacture site YES/NO	Please see risk rating A to F listed below	Remarks
Peanuts and Peanut Derivatives (including possible cross contamination)	N	N	F	
Nuts and products made from these nuts	N	N	F	
Sesame Seeds and Sesame Seed Derivatives	N	N	F	
Milk and milk products (including lactose)	N	N	F	
Egg and Egg Derivatives	N	N	F	
"Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten (wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)"	N	N	F	
Soya and Soya Derivatives	N	Y	OTHER	Soybeans are used as growth medium for fermentation to produce vitamin K2. Finished product does not contain soy.
Lupin and Lupin Derivatives	N	N	F	
Mustard and Mustard Derivatives	N	N	F	
Celery or Celery Derivatives (including Celeriac)	N	N	F	
Fish and Fish Derivatives	N	N	F	
Molluscs and their Derivatives	N	N	F	
Crustaceans and their Derivatives	N	N	F	
"Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre"	N	N	F	
Additives / E Numbers	Y	Y	CONTAINS	E 307 ALPHA-TOCOPHEROL E 414 ACACIA GUM E 1450 STARCH SODIUM OCTENYL SUCCINATE
Antioxidants	Y	Y	CONTAINS	Vitamin E
Ethylene Oxide	N	N	F	
Gelatine	N	N	F	
Flavourings (Artificial / Nature Identical / Natural / Smoked)	N	N	F	
Maize / Corn and any Derivatives	Y	Y	CONTAINS	Corn Starch



Legumes / Pulses	N	N	F	
Rice and Rice Derivatives	N	N	F	
Added Salt	N	N	F	
Added Sugar / artificial or natural sweeteners	Y	Y	CONTAINS	Sucrose
Aspartame	N	N	F	
BHA / BHT (E320 / E321)	N	N	F	
Caffeine	N	N	F	
Colours (Artificial / Nature Identical / Natural / Smoked)	N	N	F	
Dextrose	N	N	F	
"Other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)"	N	N	F	
Fruits (Kiwi fruit, orange, banana, apple, peach)	N	N	F	
Kiwi fruit	N	N	F	
Polyols (sugar alcohols)	N	N	F	
Grapefruit	N	N	F	
Sorbic Acid (E200, E203)	N	N	F	
Any other preservatives	N	N	F	
Ethanol	N	N	F	
Honey	N	N	F	
Lactose	N	N	F	
Yeast and Yeast Derivatives	N	N	F	
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	N	N	F	
"Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)"	N	N	F	
Matsutake mushroom and Derivatives	N	N	F	
Yam and Derivatives	N	N	F	
Buckwheat and Derivatives	N	N	F	

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Palm Oil and Derivatives	N	N	F	
Coconut and Derivatives	Y	Y	CONTAINS	MCT Oil

- A - Risk of contact at source during harvesting and may contain traces
- B - Raw material handled on same line as other allergenic materials and may contain traces
- C - Raw material handled on same line as other allergenic materials however formal control programme in place to minimise cross contact risk
- D - Exempt from labelling according to EU regulations
- E - Not handled on the same line
- F - Not handled at manufacture site and therefore no risk of cross contamination

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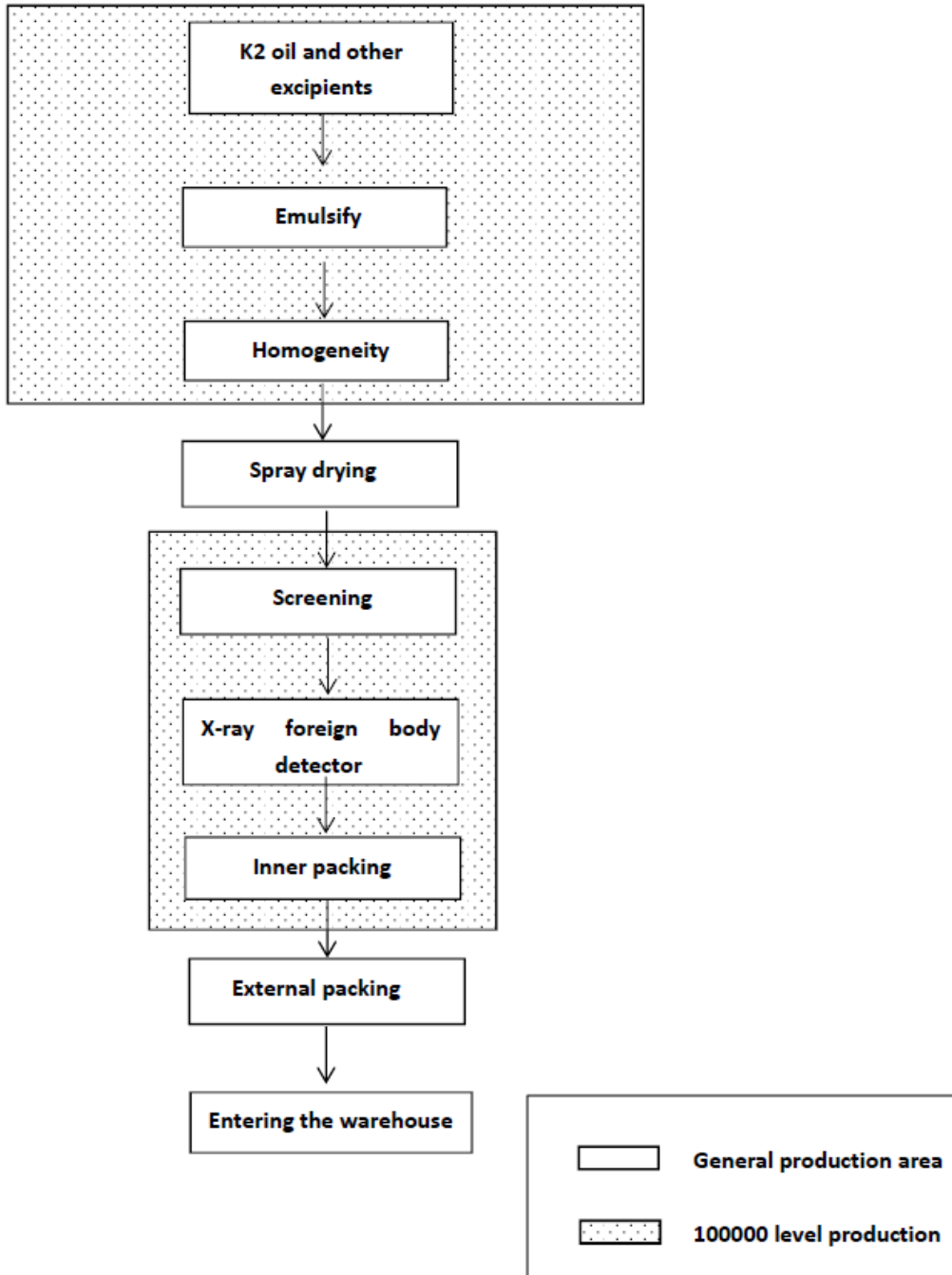
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Compliance Statements

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 to certify that this product is not manufactured from GM raw materials and is therefore not subject to labelling under current regulations.	Yes
This is to certify that this product, whole or in part, has not been subjected to Ionising Radiation as per European Directives.	Yes
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
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
This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.	Yes
This product does not contain nanomaterials as per relevant EU regulations.	Yes
The packaging used in this product conforms to EU regulations and subsequent amendments on food grade packaging.	Yes
This product complies with the PA limit set by the EU regulations	Yes
This product complies with Commission Regulation (EU) 2023/915 wherever applicable	Yes





Material Safety Data Sheet

To download this product's material safety data sheet, please click [here](#) 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.

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	Updated Product Flow Chart. Added Nutritional data. Updated ingredients list. Confirmed milk, egg, lactose, and bovine/animal products are no longer handled at manufacture site. Confirmed product contains coconut derived material.	Y

Document Approval

Originator



Daniel Burling
Quality Apprentice

x
31/07/2024 10:09

