

Product Technical Dossier

Product	Vitamin B1 (Thiamine) Mononitrate DC
CCL Product Code	P22041
specification Details	
	Specification
Identification	Positive
Assay (on dried basis)	Vitamin B1 Mononitrate content min 96%
Appearance	Free flowing granular powder
Colour	White to off white
Aroma	Characteristic
Flavour	Characteristic
	Min 99% pass 10 mesh
Particle size	Min 95% pass 14 mesh
	Max 35% pass 100mesh
Loss on Drying	Max 1%
Sulphated Ash	Max 0.2%
Bulk density	Min 0.48g/ml
Tapped density	Min 0.58g/ml
рН	6-7.5
Chloride	Max 0.06%

Microbiological Limits

Total Viable Count	Max 1000cfu/g
Yeasts & Moulds	Max 100cfu/g
E. Coli	Negative
Salmonella	Negative
S. Aureus	Negative

Heavy Metal Limits

Total Heavy metals	Max 10ppm
Lead (Pb)	Max 3ppm
Cadmium (Cd)	Max 1ppm
Mercury (Hg)	Max 0.1ppm
Arsenic (As)	Max 3ppm



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VAT No:GB711 6598 32



Additional Technical Information

Raw Material Full Botanical / Chemical Name	Vitamin B1 Thiamine mononitrate 98% DC
The material is Food Grade	Yes
Country of Origin	China
Country of Manufacture	China
Solubility in Alcohol	Slightly soluble
Solubility in Water	Slightly soluble
Average Molecular weight	327.36 g/mol (Thiamine Mononitrate)
Molecular Formula	C12H17N5O4S (Thiamine Mononitrate)
CAS Number	532-43-4 (Thiamine Mononitrate)
EC/EINECS Number	208-537-4 (Thiamine Mononitrate)
Shelf Life from Date of Manufacture	Min 3 years
Pharmacopeia Standard Used	CP & EP
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	% composition	Source
Thiamine Mononitrate	Active ingredient	Approx. 98%	Synthetic
Hydroxypropyl Methylcellulose (HPMC)	Excipient	Approx. 2%	Synthetic

Nutritional Data

Test	Value per 100g
Thiamine	>74,720mg

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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Cambridge Commodities

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 WITH Gluten (wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)	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	Yes	No, handled on a different line

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	Product contains
Antioxidants	No	No	N/A
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	No	No	N/A
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	Yes	No
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

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Statements

regard to Iransmissible Spongitorm Encephalopathies (ISE) and Bovine Spongitorm Encephalopathy (BSE) for human food, and so is free of TSE/BSE. 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. 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. 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. 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. 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. Confirmation of Animal Testing Status This is to certify that all the products sold by Cambridge Commodifies have not been tested on animals in any part of its manufacture in accordance with current regulations. Confirmation of Nanoparticles Status This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides. 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". Packaging Status We hereby certify that the packaging used in the above-mentioned material conforms to EU r		
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	This is to certify that the above-mentioned product complies with the max PAH limits set by the EU	Yes



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Product Flow Chart

Thiamine Mononitrate ↓ Slurrying ↓ Granulation ↓ Drying ↓ Sieving ↓ Blending ↓ Packaging

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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 onscreen 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	The bulk density, tapped density, base source, storage conditions, appearance, S. Aureus, Heavy Metals, Pharmacopoeia, allergen table, flow chart, MSDS and format was updated. Amounts in grams were also added to the E.coli, Salmonella and S.Aureus.	Yes
3	 General reformat Additional supplementary technical information Changes: Particle size Min 100% pass 10 mesh to Min 99% pass 10mesh Salmonella from negative/10g to negative E.coli and S. aureus from negative/g to negative Bulk density from Min 0.5g/ml to Min 0.48g/ml Tapped density from Min 0.6/ml to Min 0.58g/ml pH from 6.5-7.5 to 6-7.5 Assay from 96-99% to Min 96% Ethanol confirmed to be on site with no risk of cross contamination 	Yes

Document Approval

0	riginator	Approv	er
Chloe Binns	Chloe Binns QC Technician	Casey White	Casey White
× 14/09/2021 09:45	QC reclinician	× 14/09/2021 12:10	Senior Quality Special



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