

Product Technical Dossier

Product	Magnesium Citrate Hydrate 14.5% - 16.5% Mg
CCL Product Code	P1332

Specification Details

	Specification
Assay (dry basis)	14.5% - 16.4% Magnesium (Mg)
Appearance	Powder
Colour	White
Aroma	Characteristic
Flavour	Characteristic
Sieve Analysis % passed	Min 99% Pass 40 Mesh
Loss on Drying	Max 29%
Bulk Density	0.65 – 0.75g/ml
Tapped Density	0.8 – 0.9g/ml
pH	5 – 9

Microbiological Limits

Total Viable Count	Max 5,000cfu/g
Yeasts & Moulds	Max 300cfu/g
E. Coli	Negative/g
Salmonella	Negative/25g

Heavy Metal Limits

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



Additional Technical Information

Raw Material Full Botanical / Chemical Name	Tri-magnesium Bicitrate
The material is Food Grade	Yes
Country of Origin	China
Country of Manufacture	China
Solubility in Water	Not Soluble
Average Molecular weight	613.25
Molecular Formula	$C_{12}H_{10}Mg_3O_{14.9}H_2O$
CAS Number	153531-96-5
EC/EINECS Number	222-093-9
Shelf Life from Date of Manufacture	Min 2 Years
Pharmacopeia Standard Used	USP
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
Magnesium Citrate Hydrate	-	100	Magnesium Oxide and Citric Acid

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	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 <i>Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoensis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia vera), Macadamia nut and Queensland nut (Macadamia ternifolia)</i>	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 <i>(wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)</i>	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

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	No	No	N/A
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
Polyols (sugar alcohols)	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

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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
This product complies with Commission Regulation (EC) No 2023/915 wherever applicable	YES

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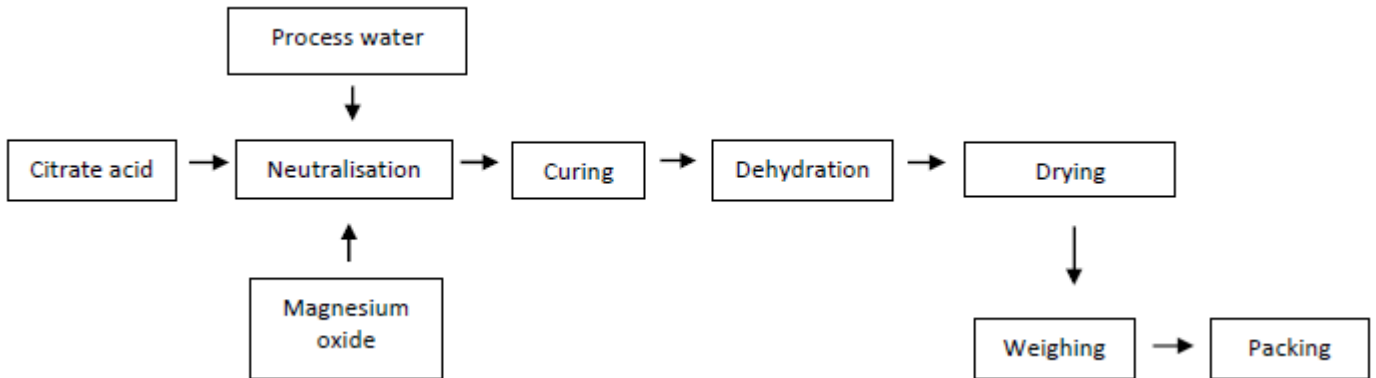
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Product Flow Chart



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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.

Change History

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	Clarification of assay value representing Mg content & format update	No
3	Solubility in water	No
4	The Solubility in Water has been updated from Soluble to Not Soluble due to a clerical error.	No
5	Assay method added	No
6	Changed Mercury specification from max 0.1ppm to max 1ppm to match limit stated by law for additives. Changed shelf life from 2 years to minimum 2 years.	Yes
7	Added microbiological parameters and vegetarian/vegan suitability. Amended the MSDS.	Yes
8	The document was also reformatted Changed the following specifications: Mercury from max 1ppm to max 0.1ppm Loss on drying from 20% - 32% to max 29% Bulk Density from approx. 0.7g/ml to 0.65 – 0.75g/ml Tapped Density from approx. 0.9 g/ml to 0.8 – 0.9g/ml Sieve Analysis from 100% pass 40 mesh to min 99% pass 40 mesh	Yes

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Change History

Version	Change	Customer Notification required Yes / No
9	Amended lead from Max 3ppm to max 1ppm, Molecular Formula from $Mg_3(C_6H_5O_7)_2 \times H_2O$ to $C_{12}H_{10}Mg_3O_{14.9}H_2O$, Average Molecular weight from 451.1 g/mol ⁻¹ to 613.25 Added EC/EINECS Number	YES
10	Amended Arsenic from Max 3ppm to max 2ppm	YES
11	Removed reference to E345, Updated statements	YES

Document Approval

Originator	Approver
 <small>23/11/2023 12:43</small> Ben Penny-Inskip Quality Specialist	 <small>23/11/2023 12:45</small> Ash Bayne Senior Quality Specialist

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