

Product Technical Dossier

Product	ProEarth Hemp Protein Powder 50%
CCL Product Code	P14684

Specification Details

Identification	Specification
Assay	Positive
Appearance	Approximately 50% Protein
Colour	Powder
Aroma	Grey/Light Green
Flavour	Characteristic
Sieve Analysis % passed	Min 98% Pass 200µm Sieve
THC	Max 3ppm
Loss on Drying	5-8%
Gluten	Max 20 mg/kg

Microbiological Limits

Total Viable Count	Max 300,000cfu/g
Yeasts	Max 1,000cfu/g
Moulds	Max 1,000cfu/g
E. Coli	<10cfu/g
Salmonella	Negative/25g
B cereus	<1,000cfu/g
Anaerobic Sulphite Reducing Bacteria	Max 10,000cfu/g
Coliforms	Max 1,000cfu/g
Coagulase positive Staphylococcus	Max 100cfu/g
Enterobacteriaceae	Max 10,000cfu/g

Heavy Metal Limits

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



Additional Technical Information

Raw Material Full Botanical Name	<i>Cannabis sativa, Finola</i>
Part Used	Seeds
The material is Food Grade	Yes
Cultivated / Wild	Cultivated
Harvest Method	Mechanical
Harvest Period	Autumn
Harvest Stage (age of the plant)	4 months
Country of Origin	Lithuania, Latvia, Estonia, Romania
Country of Manufacture	Lithuania, Romania
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	% composition	Source
Hemp Protein	100%	Hemp Seeds of <i>Cannabis sativa</i>

Nutritional Data (typical)*

Test	Value per 100g
Energy kJ / Kcal	1496kJ / 350Kcal
Fat (g)	9.16g
-Of which Saturates (g)	1.1g
-Of which Mono-unsaturated (g)	1.2g
-Of which Polyunsaturated (g)	6.0g
-Of which Omega 3 (g)	1.4g
-Of which Omega 6 (g)	4.6g
Carbohydrate (g)	5.0g
-Of which Sugars (g)	4.35g
Fibre (g)	23.5g
Protein (N*6.25) (g)	50.0g
Salt (g)	0.01g

*Nutritional values are not standardised, so may vary batch to batch

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: P14684

Version: 6

Page 2 of 8

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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	F
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	F
Sesame Seeds and Sesame Seed Derivatives	No	No	F
Milk and Milk Derivatives (including lactose)	No	No	F
Egg and Egg Derivatives	No	No	F
Cereals and Derivatives containing OR POTENTIALLY CONTAMINATED WITH Gluten <i>(wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)</i>	No	No	A
Soya and Soya Derivatives	No	No	A
Lupin and Lupin Derivatives	No	No	A
Mustard and Mustard Derivatives	No	No	A
Celery or Celery Derivatives (including Celeriac)	No	No	F
Fish and Fish Derivatives	No	No	F
Molluscs and their Derivatives	No	No	F
Crustaceans and their Derivatives	No	No	F
Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or 10mg/litre	No	No	F

- 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

(**) The gluten test results provided for each batch on the certificates of analysis are given based upon the supplier's stringent sampling regime, taking multiple samples during all stages of the manufacturing process. Considering the nature of the material and both growing and harvesting methods utilised, complete homogeneity cannot be guaranteed. This means that although representative sampling is in place, parts of the batch could at times exceed 20ppm.



Additives / Contaminants / Dietary Requirements / Intolerances	Product Contains YES/NO	Handled at Manufacture site YES/NO	Please see risk rating A to E listed below
Additives / E Numbers	No	No	F
Antioxidants	No	No	F
Ethylene Oxide	No	No	F
Gelatine	No	No	F
Flavourings (Artificial / Nature Identical / Natural / Smoked)	No	No	F
Maize / Corn and any Derivatives	No	No	F
Legumes / Pulses	No	No	F
Rice and Rice Derivatives	No	No	F
Added Salt	No	No	F
Added Sugar / artificial or natural sweeteners	No	No	F
Aspartame	No	No	F
BHA / BHT (E320 / E321)	No	No	F
Caffeine	No	No	F
Colours (Artificial / Nature Identical / Natural / Smoked)	No	No	F
Dextrose	No	No	F
Other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	Yes	Yes	Hemp Seeds
Fruits (Kiwi fruit, orange, banana, apple, peach)	No	No	F
Polyols (sugar alcohols)	No	No	F
Grapefruit	No	No	F
Sorbic Acid (E200, E203)	No	No	F
Any other Preservatives	No	No	F
Ethanol	No	No	F
Honey	No	No	F
Lactose	No	No	F
Yeast and Yeast Derivatives	No	No	F
All Animal Products (Beef, Pork, Poultry or other) and Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	F
Bovine Products or Derivatives (which may include growth/yield hormones, antibiotics etc.)	No	No	F
Matsutake mushroom and Derivatives	No	No	F
Yam and Derivatives	No	No	F
Buckwheat and Derivatives	No	No	F
Palm Oil and Derivatives	No	No	F
Coconut and Derivatives	No	No	F

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Product Code: P14684

Version: 6

Page 4 of 8

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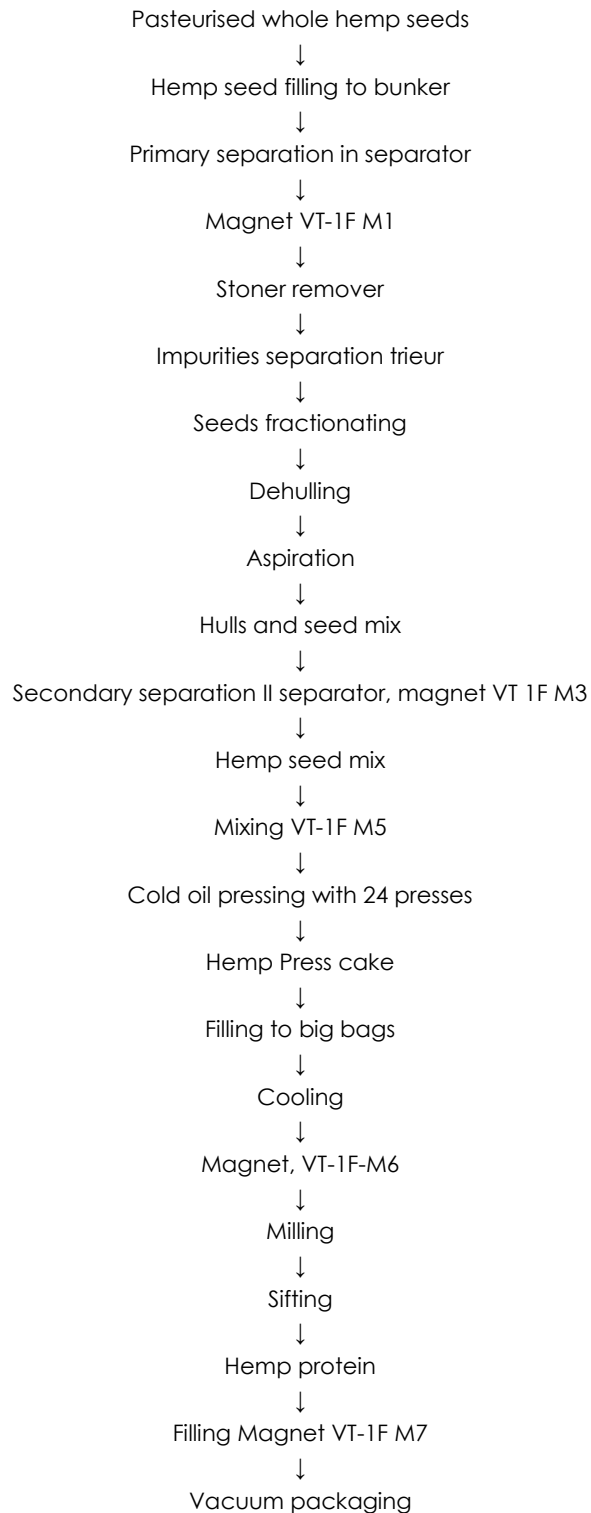
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Statements

<p>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.</p>	Yes
<p>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.</p>	Yes
<p>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.</p>	Yes
<p>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.</p>	Yes
<p>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.</p>	Yes
<p>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.</p>	THC <3ppm
<p>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.</p>	Yes
<p>Confirmation of Pesticides Status This is to certify that the above-mentioned product complies with the EU max residue limits (MRLs) on pesticides.</p>	Yes
<p>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".</p>	Yes
<p>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</p>	Yes
<p>Confirmation of PAH status This is to certify that the above-mentioned product complies with the max PAH limits set by the EU regulations</p>	Yes



Product Flow Chart



Product Code: P14684

Version: 6

Page 6 of 8

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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.

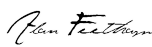

Change History

Version	Change	Customer Notification required Yes / No
1	First Issue	N/A
2	Amended the following information: <ul style="list-style-type: none"> • THC from <2mg/Kg to <5 ppm, • Total Viable Count from Max 100,000 cfu/g to Max 250,000 cfu/g, • Country of Origin from Canada, France, China to Lithuania, Latvia, Estonia • Country of Manufacture from England to Lithuania. • Updated flow chart • Removed Listeria information. • Amended additives table as this product does not contain vitamin E, hemp seeds are present in the product and on manufacture site. • Amended allergen information as gluten contamination may be possible on farm level. Gluten level is <20 ppm and every 	Yes
3	<ul style="list-style-type: none"> • Added Gluten testing statement 	Yes
4	Amended the following information: <ul style="list-style-type: none"> • Changed colour from Bright Green/Brown Green to Grey light green, Particle Size from >200µm to Sieve Analysis Min 98% 200 µm Mesh, Yeasts and Moulds from Max 10,000cfu/g to Yeast & Moulds Max 1,000cfu/g, Shelf life from Min 18 Months to Min 2 Years. • Removed pH and total heavy metals • Added Loss on Drying 5-8%, Gluten Max 20 mg/kg, Anaerobic Sulphite Reducing Bacteria Max 10,000cfu/g, Coliforms Max 1000cfu/g, Coagulase positive Staphylococcus Max 100cfu/g, & Enterobacteriaceae Max 10,000cfu/g 	Yes



5	<p>Changed specification for THC from max 5ppm to max 3ppm, total viable count from max 250,000cfu/g to max 300,000cfu/g, and yeast & moulds from max 1,000cfu/g combined to max 1,000cfu/g each.</p> <p>Confirmed soy, lupin, & mustard at Risk of contact at source during harvesting and therefore, this product may contain traces.</p>	Yes
6	<p>Added Romania as possible country of origin and manufacture.</p> <p>Added statement to nutritional information section, claiming the values given are "typical", and may vary batch to batch.</p>	Yes

Document Approval

Originator		Approver	
	Alan Feetham QC Technician		Ash Bayne Senior Quality Specialist
<small>x</small> 05/04/2024 09:48		<small>x</small> 10/04/2024 13:01	

Product Code: P14684

Version: 6

Page 8 of 8

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