



09-03-1001DOC	Technical Data Specification
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Product Code:	BULK01HEMP	Technical Data Specification ID:	TDS-BULK01HEMP	Issue:	2
Product Name:	ORGANIC HEMP PROTEIN POWDER			Date:	13.03.2023

COMPANY IDENTIFICATION

COMPANY NAME NUTS IN BULK
 COMPANY ADDRESS Unit B2, Canal Bank, Hume Avenue, Park West Industrial Park, Dublin 12, D12 PY02
 CONTACT DETAILS **Email: quality@nutsinbulk.ie**

PRODUCT INFORMATION

BOTANICAL NAME Cannabis Sativa
 COUNTRY OF ORIGIN Netherlands, United Kingdom, Romania

BRIEF DESCRIPTION A seed of cannabis Sativa L, hemp is a non-drug variety of cannabis. This remarkable “superfood” is an excellent protein source embodying essential amino acids. Hemp seeds are an optimum source for fatty acids including omega 3-6-9 and vital minerals. The two main proteins in hemp seed are edestin and albumin. These high-quality storage proteins are easily digested and contain nutritionally significant amounts of amino acids. A traditional oriental medicine, clinical trials have identified hemp seeds as a functional food and an important food resource. Reminiscent of a sunflower seed, raw hemp seeds are selected for the finest quality and then pressed at 43°C to separate the hemp oil from the solids to form a paste. Once the paste has dried into a cake, it is stone ground to hemp powder. The hemp powder is sifted to reduce fibre content whilst preserving a high proportion of protein. Organic Hemp protein embodies a high protein content, which includes essential amino acids.
 Organic Hemp Protein powder is certified organic by the Soil Association under the code GB-ORG-05.

INGREDIENTS 100% Organic Hemp Seeds
 INTENDED USE Ready to use or as an ingredient
 SUGGESTED USE 20-30g per day. Please consult your doctor before taking any nutrient-dense products.
 PACKAGING/ NET WEIGHT 20kg polythene bag
 SHELF LIFE & STORAGE 24 months from the manufacture date. Store in a cool, dry place.

NUTRITIONAL INFORMATION

	Per 100g	Units
Energy	1454/348	kJ/kcal
Fat	8.4	g
of which saturates	1.2	g
of which mono-unsaturates	1.1	g
of which polyunsaturates	5.8	g
omega 3	1.4	g
omega 6	4.8	g
Carbohydrate	5.1	g
of which sugars	4.2	g
Fibre	26	g
Protein	50	g



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Salt	0		g
Magnesium	724		mg
Manganese	18		mg

We periodically review our nutrition information based on a risk assessment to account for seasonal variability, growing condition and other factors that cause nutrition result to vary. Please find our updated TDS.

ORGANOLEPTIC PROPERTIES

<i>Appearance/Texture</i>	Fine Powder
<i>Flavour</i>	Nutty
<i>Aroma</i>	Characteristic
<i>Colour</i>	varies from bright green to green with shades of light brown

PHYSICAL CHARACTERISTICS

<i>Sieve Size</i>	280µm
<i>Foreign Materials</i>	Absent
<i>Solubility</i>	N/A
<i>Density</i>	0.52g/cm ³

CHEMICAL CHARACTERISTICS

<i>Moisture</i>	Max. 8%
<i>Ash</i>	N/A
<i>Water Activity</i>	N/A
THC	<3mg/kg

MICROBIOLOGICAL CHARACTERISTICS

Name	Maximum Limit	UoM
<i>Plate Count</i>	≤1000000	cfu/g
<i>Yeast</i>	≤10000	cfu/g
<i>Mold</i>	≤10000	cfu/g
<i>E. Coli</i>	≤20	cfu/g
<i>Salmonella</i>	Not Detected	/25g
<i>Bacillus Cereus</i>	≤10000	cfu/g
<i>Listeria</i>	Not Detected	/25g
<i>Clostridium Perfringens</i>	≤10000	cfu/g
<i>Staphylococcus Aureus</i>	≤10000	cfu/g
<i>Enterobacteriaceae</i>	≤10000	cfu/g

PACKAGING



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<i>Direct Contact Packaging</i>	Food Grade foil bag
<i>Indirect Contact Packaging</i>	Paper bag
<i>Recyclability</i>	100% recycled.

The packaging is in accordance with the EU Legislation:

- Council Directive on Packaging and Packaging Waste 94/62/EC and its consecutive amendments.
- Commission Regulation (EC) No 1935/2004 on Materials and Articles Intended to Come into Contact with Food and its consecutive amendments.
- Commission Regulation (EU) No 10/2011 on Plastic Materials and Articles Intended to Come into Contact with Food and its consecutive amendments.

DIETARY INFORMATION

Diet	Suitable For	Certified?	Comments
Organic	Yes	Yes	
Vegetarian	Yes	Yes	
Vegan	Yes	Yes	
Jewish / Kosher	Yes	Yes	
Muslin / Halal	Yes	No	Suitable but not certified

AUTHORISED HEALTH BENEFITS BASED ON MICRONUTRIENTS

Micronutrients in this product contribute to:

- | | |
|---|--|
| <ul style="list-style-type: none"> ✓ reduction of tiredness and fatigue ✓ electrolyte balance ✓ normal energy-yielding metabolism ✓ normal functioning of the nervous system ✓ normal muscle function ✓ normal formation of connective tissue | <ul style="list-style-type: none"> ✓ the process of cell division ✓ normal protein synthesis ✓ normal psychological function ✓ the maintenance of normal bones ✓ the maintenance of normal teeth ✓ protection of cells from oxidative stress |
|---|--|

These approved health benefits are based on the detailed nutritional composition of the product we supply and in compliance with regulation (EC) No 1924/2006. These health benefits may not be applicable to similar products from other suppliers. We recommend that any claims made for a product are verified by lab analysis. For a vitamin claim, this should take place at the end of shelf-life.



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**Allergens:-When purchased in bulk size original packaging, manufacturer allergen policy will apply.
When purchased in quantities that need re-packaging, our allergen policies will apply.**

Component	Manufacturer			Nuts in Bulk (Applies when bought in small quantities that need re-packaging)		
	In Product	Processed in Same Equipment	Handled on Site	In Product	Processed in Same Equipment	Handled on Site
Cereals containing GLUTEN and products thereof	NO	NO	NO	NO	NO	YES
EGGS or its derivatives	NO	NO	NO	NO	NO	NO
FISH or its derivatives	NO	NO	NO	NO	NO	NO
CRUSTACEANS / SHELLFISH	NO	NO	NO	NO	NO	NO
MOLLUSCS	NO	NO	NO	NO	NO	NO
PEANUTS or derivatives	NO	NO	NO	NO	NO	YES
SOYA BEANS or derivatives	NO	NO	NO	NO	NO	YES
MILK (LACTOSE) or its derivatives	NO	NO	NO	NO	NO	YES
NUTS , tree nuts:	NO	NO	NO	NO	NO	YES
CELERY, including celeriac and its derivatives	NO	NO	NO	NO	NO	NO
MUSTARD, referring to all parts of the plant and derivatives thereof	NO	NO	NO	NO	NO	YES
SESAME SEEDS or derivatives	NO	NO	NO	NO	NO	YES
SULPHITES >10ppm – Sulphite quantity to be given in ppm	NO	NO	NO	NO	NO	YES
LUPIN seeds or derivatives	NO	NO	NO	NO	NO	NO

CONTAMINANTS

Heavy Metals (lead, cadmium, mercury, tin, arsenic)
Mycotoxins (aflatoxins, ochratoxin A, patulin)
Nitrates
Polycyclic Aromatic Hydrocarbons (PAH)

According to Regulation (EC) No 1881/2006 and 629/2008.
 According to Regulation (EC) No 1881/2006.
 According to Regulation (EC) No 1881/2006.
 According to Regulation (EU) No 2015/1933

GMO FREE

This product is not subject to genetic modifications. Process controls are in place to ensure no accidental contamination with genetically modified materials, or materials derived thereafter, can occur. We hereby certify that this product is not subject to labeling under EU Regulations 1829/2003/EC and 1830/2003/EC on genetically modified food and feed.

PESTICIDES

This product complies with the requirements outlined in Regulation (EU) 2018/848 of the European Parliament and of The Council (and consecutive amendments). It also complies with Soil Association strict organic farming standards. During the manufacturing process the product and the packaging materials are not exposed to pesticides or pesticide residues. Pesticides are not stored on site, nor used in the manufacturing or warehousing areas.



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IRRADIATION AND ETHYLENE OXIDE

We declare that the product listed above is not treated with ionizing radiation (r2) or ethylene oxide (EtO) for any purposes and as such are free of gamma ray and ethylene oxide residue and complies with the EU regulation 1999/3/EC

BSE STATEMENT

This product is manufactured exclusively from plant source, and does not contain any components from animal origin. It has not been derived from any animal source, and has not come into contact with any components of animal origin.

RESIDUAL SOLVENTS

No residual solvents are used in the manufacturing process.

LEVEL OF UNDESIRABLE SUBSTANCES

The strictly controlled production process of this product ensures that the undesirable substances levels (heavy metals, PAH, mycotoxins, etc.) are below the limits identified by EU legislation (Commission regulation No 2073/2005, No 1881/2006 and consecutive amendments), including the recommendations provided by EFSA on food contaminants.

PRODUCT INTEGRITY STATEMENT

- Novel Food Statement

Cannabis Sativa: In the EU, the cultivation of Cannabis sativa L. varieties is permitted provided they are registered in the EU's 'Common Catalogue of Varieties of Agricultural Plant Species' and the tetrahydrocannabinol (THC) content does not exceed 0.2 % (w/w). Some products derived from the Cannabis sativa plant or plant parts such as seeds, seed oil, hemp seed flour, defatted hemp seed have a history of consumption in the EU and therefore, are not novel.

Other specific national legislation may restrict the placing on the market of this product as a food or food ingredient in some Member States.

Our Organic Hemp Protein powder which is produced from Organic Hemp Seeds contains tetrahydrocannabinol (THC) levels of less than 0.2% (w/w) as permitted by European Union Regulation (EU) 2015/2283 (Novel Food Regulation):

- Tetrahydrocannabinol (THC)

Our Organic Hemp Protein Powder contains THC which meets Commission Regulation (EU) 2022/1393 of 11 August 2022 amending Regulation (EC) No 1881/2006 as regards maximum levels of delta-9-tetrahydrocannabinol (Δ^9 -THC) in hemp seeds and products derived therefrom. The legislation sets a maximum for Delta-9-tetrahydrocannabinol (Δ^9 -THC) equivalents in hemp seeds of 3.0mg/kg*.

*The maximum level refers to the sum of delta-9-tetrahydrocannabinol (Δ^9 -THC) and delta-9-tetrahydrocannabinolic acid (Δ^9 -THCA), expressed as Δ^9 -THC. A factor of 0,877 is applied to the level of Δ^9 -THCA and the maximum level refers to the sum of Δ^9 -THC + 0,877 x Δ^9 -THCA (in case of a separate determination and quantification of Δ^9 -THC and Δ^9 -THCA).



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- Cannabidiol (CBD)

Our organic hemp products derived from the Cannabis sativa L plant or plant parts such as seeds, hemp seed flour, defatted hemp seed have a history of consumption in the EU and therefore, are not novel under European Union Regulation (EU) 2015/2283 (Novel Food Regulation).

The product contains CBD at levels of less than 0.1 mg/kg which is our internal limit. Consumption of this product following the labelled instructions does not result in consumption of more than 70mg a day (about 28 drops of 5% CBD)

ANIMAL TESTING STATEMENT

NUTSINBULK confirms that we do not conduct or commission animal testing of any products.

The information contained herein is based on the present state of our knowledge and is intended to describe our product from the point of safety requirements. Therefore, it should not be construed as guaranteed specific properties of the product described. Our product specification may be subject to change without notice.

This is an agricultural product; therefore, some batch variation may occur in terms of colour, flavour, odour, appearance and composition based on the growing conditions and seasonal variability.

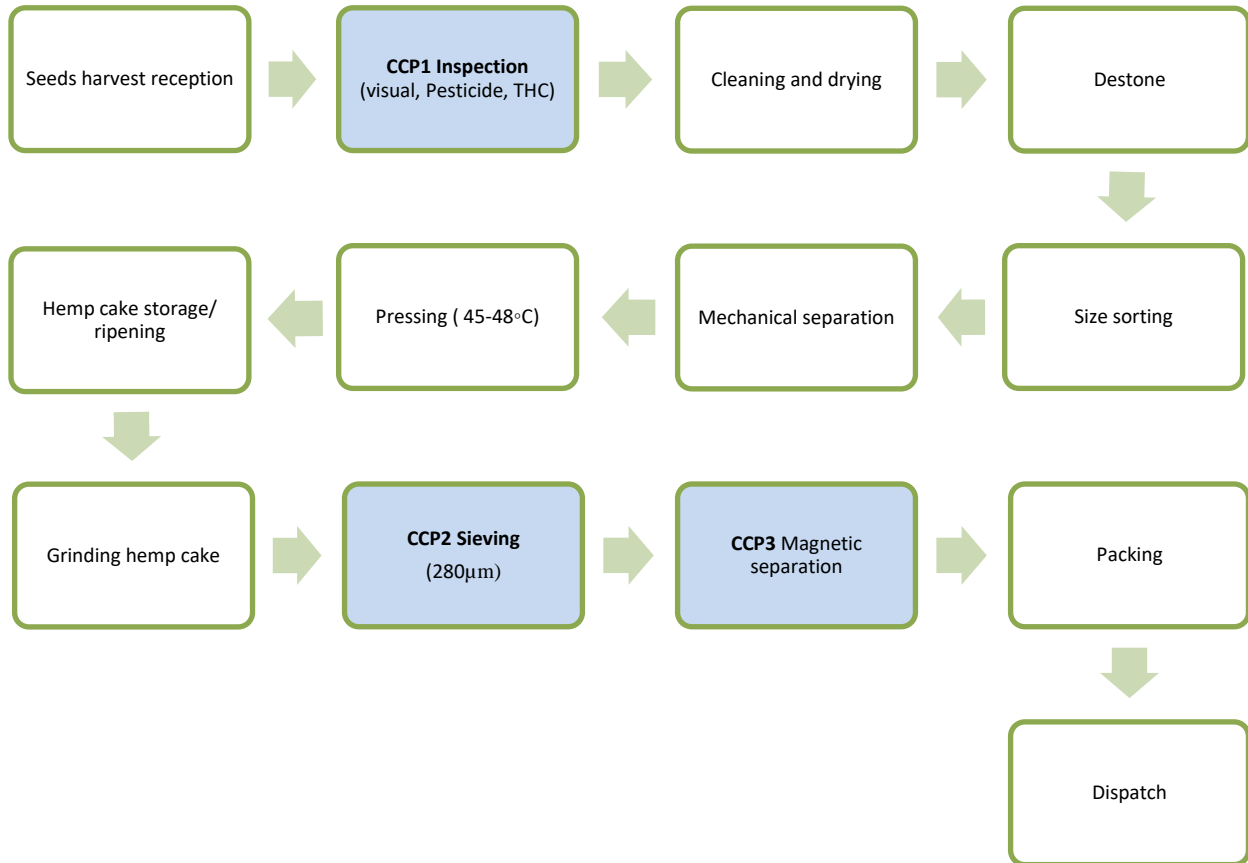
The nutritional information provided in this document is based on nutritional testing and on average, as required by regulation (EC) No 1169/2011. The information is not meant to ensure warranty of characteristics. It comes without commitment and is not valid for any claim of warranty and product liability respectively.



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PROCESS FLOW





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MATERIAL SAFETY DATA SHEET

HAZARD IDENTIFICATION

Not classed as hazardous

FIRST AID MEASURES

SKIN

Wash with plenty of water.

INGESTION

Seek medical attention if required.

INHALATION

Remove exposure. Seek medical attention if required.

EYES

Wash out with plenty of water / eye solution. Seek medical attention if irritation persists

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Use appropriate media relating to other components of fire- can use: water spray, foam, dry chemical or carbon dioxide.

SPECIAL HAZARDS OF PRODUCT

Not Flammable

PROTECTIVE EQUIPMENT FOR FIREFIGHTING

Wear full protective clothing and self-contained breathing apparatus.

ACCIDENTAL RELEASE MEASURES

SPILLAGES

Treat as any other food material

PERSONAL PRECAUTIONS

No special procedures identified

ENVIRONMENTAL PRECAUTIONS

Minimize contamination of drains, surface and ground waters.

HANDLING AND STORAGE

HANDLING

Handle under good hygiene procedures as with any food material.

STORAGE

Store away from air, heat and light exposure. Store in original container in cool area, under cover.

EXPOSURE CONTROL / PERSONAL PROTECTION



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BODY PROTECTION	Normal work wear
SKIN PROTECTION	Rubber / PVC gloves
EYE PROTECTION	Chemical goggles
RESPIRATORY PROTECTION	As it is powder form- respiratory protection may be required

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Powder
SOLUBILITY IN WATER	Partially Soluble
AUTO-FLAMMABILITY	No

STABILITY AND REACTIVITY

STABILITY	Stable under normal conditions. Avoid exposure to air, light and humidity.
CONDITIONS TO AVOID	None Identified.

TOXICOLOGY INFORMATION

Not applicable

ECOLOGICAL INFORMATION

This product is ultimately biodegradable.

DISPOSAL CONSIDERATIONS

Dispose of according to relevant local / national guidelines.

TRANSPORT INFORMATION

Non-hazardous for air, sea and road freight.

REGULATORY INFORMATION

No data

ADDITIONAL INFORMATION

This Product is 100% Natural and Organic; it is not considered hazardous.



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The information in this document is believed to be true and accurate at the time of creation, however all statements contained in this document are made without warranty. The entirety of the potential methods of use is not within our control and therefore no responsibility or liability will be assumed for use of this product.

Version No:	Review Date:	Reason for the change	Changed by:	Authorized by:
1	21.02.2023	Merging previous specifications documents: <ul style="list-style-type: none"> - Product Specification GO053, issue 3.1, issued 09/09/2020 - Material Safety Data Sheet GO205, Issue 3, Issued 13/02/2020 - Product Flow Chart GO345, Issue 3, Issued 15/04/2020 - Technical Data Sheet, GO134, Issue 5.4, Issued 30/08/2022) into one document. No food safety data changes involved.	E. Frydrych	T. Kufa
2	13.03.2023	TBC content updated to reflect legislation change (Commission Regulation (EU) 2022/1393 amending Regulation (EC) No 1881/2006 as regards maximum levels of delta-9-tetrahydrocannabinol in hemp seeds and products derived therefrom	E. Frydrych	T.Kufa

