


**Specification sheet (valid from 09/2018)**  
**Shelled hemp seeds (certified organic)**

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Product specifications			
Product	Shelled hemp seeds	Product code	HHb
Product description	Hemp nuts type Cannabis Sativa; variety Jubileu, Zenit, Finola, Uso, Fedora, Ferimon, Futura, Felina. Controlled organic crop and controlled biological processing (raw, cold-processed, chemical-free, hexane-free hemp seeds). This is an agricultural product; therefore, some batch variation may occur in: colour, flavour, odour, appearance or composition, reflecting growing conditions and seasonal variation.		
Origin	Our hemp seeds are grown exclusively in the EU and processed in a controlled manner.		
Year of harvest	2018	shelled/processed	2018
Accredited controlled organic crop	Verification code DE-ÖKO-070  DE-ÖKO-070	Certification number DE-BE-070-5557-B	
General requirements	The provisions of the German Foodstuffs Act are incumbent. 100% natural product. It contains no supplements, no preservatives, no additives.		
Use	Food intended for direct consumption and further processing		
Sensory requirements	Appearance	White-beige nuts	
	Smell/taste	Walnut taste	
	Texture	Creamy	
Impurities/Purity	Purity > 99%. Impurities/green seed peel <1%		
NON-GMO	It is a not-genetically modified product		
It does not contain allergen and gluten	in accordance with Regulation (EU) no. 1169/2011 Annex II		
Package 20kg	Vacuum packed plastic bags, made of opaque material for food use. Filled with nitrogen.	Validity	14 months
Storage conditions	Sealed, in a dry and cool place (6-8 degrees), away from the sun		
Composition and nutritional value	<b>Nutritive table (mean values for 100g)</b>		
	Energy, kJ/kcal	2507kJ/605kcal	
	Fat	51.7g	
	Of which:		
	- saturated fatty acids	4.8g	
	- monounsaturated	5.4g	
	- polyunsaturated	39.1g	
	Carbohydrates	0.9g	
	Of which:		
	Sugar	0g	
	Dietary fibers	4.2g	
	Proteins	32.1g	
	Salt	0.03g	
	Vitamin A	375µg	
Vitamin D	12.5µg		
Vitamin E	2mg		

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**Peeled hemp seeds (certified organic)**

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Distribution of fatty acids in fat in %	Myristic acid (14:0)	< 1	Alpha-linolenic acid (18:3)	13 – 30
	Palmitic acid (16:0)	5-12	Stearic acid (18:4)	< 2
	Palmitoleic acid (16:1)	< 1	Arachidic acid (20:0)	< 2
	Margaric acid (17:0)	< 1	Arachidic acid (20:2)	< 1
	Stearic acid (18:0)	1-4.5	Eicosenoic acid (20:1)	< 1
	Oleic acid (18:1)	9-17	Behenic acid (22:0)	< 1
	Linoleic acid (18:2)	45 – 65	Lignoceric acid (24:0)	< 1
	Gamma-linolenic acid (18:3)	4		
Share of essential amino acids in 100g of product	Typical distribution		Cumulative value > 13g	
	Arginine	3.58g		
	Leucine	2.04g		
	Valine	1.47g		
	Phenylalanine	1.4g		
	Isoleucine	1.3g		
	Lysine	1.13g		
	Threonine	1.05g		
	Histidine	0.82g		
	Methionine	0.75g		
	Tryptophan	0.25g		
	Arginine	3.58g		
	<b>Sum</b>	<b>13.63g</b>		
		<b>Interval</b>	<b>Regulation</b>	
Microbiological investigations in cfu/g	Salmonella	n.d. in 125g		REGULATION (EC) n. 2073/2005
	Staphylococci	< 10 <sup>2</sup>		
	Escherichia coli	n.d. < 10		
	The content of aerobic germs	< 3*10 <sup>5</sup>		
Chemical-analytical values	Pesticides	< 0.01mg/kg		
	Mycotoxins	< Total aflatoxins < 4µg/kg, Ocratoxin A < 3µg/kg		(EC) no. 1881/2006)
	Heavy metals	lead < 0.1mg/kg, cadmium < 0.2mg/kg, mercury < 0.1 mg/kg		(EC) no. 1881/2006)
	PAH	< 2µg/kg		(EC) no. 1881/2006)
	THC (total)	< 5mg/kg		EIHA recommendation
	Acidity	< 4mg KOH/g		
	POZ	< 15meq/kg		