

LipoMill Hemp Press Cake and Flour



DE-ÖKO-003

General Information

With 20 amino acids **LipoMill Hemp Press Cake** has a complete amino acid profile. Nine of these twenty are essential amino acids, which the body cannot produce itself. The hemp protein found in our Hemp Press Cake is made up of approx. 65 % edestin, a bioactive globulin protein, which is easily digested and suitable for human consumption.¹ In addition, Hemp Press Cake contains essential Omega-3 and Omega-6 fatty acids² as well as essential minerals, in particular iron, magnesium, zinc and phosphorus.³ Furthermore, Hemp Press Cake is rich in dietary fibre. Hemp seeds used in the foods industry contains only trace amounts of tetrahydrocannabinol and does not cause psychoactive reactions.¹

LipoMill Hemp Press Cake and **LipoMill Hemp Flour** offer an excellent balance of healthful fats, vitamins and proteins. With their nutty flavour our hemp products are a wholesome substitute for less functional ingredients.

- **Low carb ingredient for biscuits or bread formulations**
- **Protein enrichment for sports foods, breakfast cereals and porridge**
- **Ingredient for the production of hemp milk and in smoothies**

- **cold-pressed**
- **vegan**

Nutritional value⁴ (g/100 g) press cake of seeds

Protein	30.7
Energy	1290 kJ / 311 kcal
Fat	7.9
<i>Saturated fatty acids</i>	1.1
<i>Monounsaturated fatty acids</i>	1.2
<i>Polyunsaturated fatty acids</i>	5.6
Carbohydrates	7.4
<i>Sugar</i>	2.7
Salt	<0.025
Moisture	3.6
Ash	6.7
Dietary fibre	43.7

Nutritional value⁴ (g/100 g) press cake of hulled seeds

Protein	63.4
Energy	1406 kJ / 334 kcal
Fat	5.8
<i>Saturated fatty acids</i>	0.8
<i>Monounsaturated fatty acids</i>	0.6
<i>Polyunsaturated fatty acids</i>	4.4
Carbohydrates	3.1
<i>Sugar</i>	3.2
Salt	0.03
Moisture	7.9
Ash	12.2
Dietary fibre	7.7

Reference daily intake for adults: 0.8 g protein/kg body weight (WHO).

¹ Callaway J.C., "Hempseed as a nutritional resource: An overview", *Ephytica*, 140 (2004).

² Leyva et al., "Nuts & Seeds in health and disease prevention". Chapter 74: Medicinal uses of hempseeds (*Cannabis Sativa L.*): Effects on platelet aggregation, (2011).

³ "National Nutrient Database for Standard Reference", United States Department of Agriculture (revised 2017).

⁴ Test results for Hemp Press Cake as conducted by an accredited testing laboratory (2017).

Liability limitation:

Information and data contained herein are intended only for expert audience and not for end-consumers. The information and data contained herein are based on our current knowledge and experience. This does not relieve the company producing and/or placing a product on the market from carrying out own investigations and tests. These data neither warrants certain properties nor the suitability of the product for a specific purpose. Data specified herein may change without prior notice and is not to be considered as part of our terms and conditions of sale.

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Vitamins, Minerals and Amino Acids

as per "Self Nutrition Database" (supplied by USDA).³

Vitamins and Minerals	
Composition	in 100 g seeds
Vitamins	
Vitamin C	0.5 mg
Vitamin B ₁	1.275 mg
Vitamin B ₂	0.285 mg
Vitamin B ₃	9.2 mg
Vitamin B ₆	0.6 mg
Folate	0.11 mg
Vitamin E	0.8 mg
Minerals	
Sodium	5 mg
Potassium	1200 mg
Magnesium	700 mg
Calcium	70 mg
Iron	7.95 mg
Phosphorus	1650 mg
Zinc	9.90 mg
Copper	1.6 mg
Manganese	7.6 mg

Fatty acids	in 100 g flour ⁴
Linoleic acid	4.2 g
Alpha-linolenic acid	1.1 g
Gamma-linolenic acid	2.6 g

Amino Acid Profile	
Amino Acids	mg/100 g seeds
Alanine	1528
Arginine	4550
Asparagic acid	3662
Cysteine	672
Glutamic acid	6269
Glycine	1611
Histidine*	969
Isoleucine*	1286
Leucine*	2163
Lysine*	1276
Methionine*	933
Phenylalanine*	1447
Proline	1597
Serine	1713
Threonine*	1269
Tryptophan*	369
Tyrosine	1263
Valine*	1777

The amino acid score of 79 has not been corrected for digestibility.

Nutrition Claims

In due consideration of Regulation (EC) No.: 1924/2006 of the European Parliament and of the Council on health and nutrition claims made on foods as well as the aforementioned nutrient values⁴, we believe the following nutrition claims are maintainable:

A product with high fibre content: As it contains more than 6 g of dietary fibre per 100 g and more than 3 g of dietary fibre per 100 kcal.

A product with high protein content: As at least 20% of the energy value comes from protein.

A source of vitamin B₂: As the product contains a significant amount as defined in Appendix I of the European Guideline 90/496/EEC on vitamins and minerals.

A product with high vitamin B₁, Vitamin B₃, Vitamin B₆ and folate content: As it contains twice as much vitamin B₁, B₃, B₆ and folate than defined as a significant amount in Appendix I of the European Guideline 90/496/EEC on vitamins.

A product with high iron, magnesium, phosphorus and zinc content: As it contains twice as much of these minerals than defined as a significant amount in Appendix I of the European Guideline 90/496/EEC on minerals.