



COURSE-GROUND HEMP SEED CAKE (HSC)

PRODUCT OVERVIEW

Description:	Cold-milled hemp powder
Common Names:	Milled hemp seedcake
Ingredients:	Milled hemp seedcake
Hemp Varieties:	Finola, CFX-1, CFX-2, CRS-1, Canma, Granma, Katani, Piccoli, X-59
Purity:	99.9%
Shelf Life:	30 months from the date of manufacture
Storage:	Store in a cool, dry place, at ambient temperatures. 30-50% RH. Keep away from heat or light.
Packaging:	2,000lbs bulk tote bags, or 50lbs bags (poly-woven bag with food grade liners)
Allergen:	Does not contain any 'major' allergens as defined by the FDA and CFIA
Accreditations*:	BRCGS certified, Kosher (OU), Halal, Non-GMO, Organic (COR / NOP / EUEQ)
Protein Digestibility****:	Not available
Treatment:	No preservatives, no irradiation

TEST	SPECIFICATION	METHOD
ORGANOLEPTIC		
Appearance	Dark brown greenish coarse powder	Internal SOP
Flavor & Odor	Fresh with nutty flavor and aroma, typical hemp seed	Internal SOP
MICROBIOLOGICAL		
Standard Plate Count (SPC)	< 250,000 cfu/g	AOAC 990.12
Total Coliform	< 500 cfu/g	AOAC 991.14
Yeast & Mold	< 1,000 cfu/g	AOAC 2014.05
<i>E. coli</i>	< 10 cfu/g	AOAC 991.14
<i>Salmonella</i>	Negative in 375 g	MFLP-29
Staphylococcus Aureus	Negative at 25	USP<2021/2022>
Listeria	Negative	MFHPB-30
CHEMICAL		
Peroxide Value (PV)	0-8 meq/kg	NIR
Free Fatty Acid (FFA)	0-2% (as oleic acid)	NIR
Arsenic**	< 1.5 ppm	ICP-MS
Cadmium**	< 0.5 ppm	ICP-MS
Lead**	< 0.5 ppm	ICP-MS
Mercury**	< 1.5 ppm	ICP-MS
Total THC**	< 4 ppm	AFVAN-SLMF-0027
Total CBD**	<150 ppm	AFVAN-SLMF-0074
Gluten***	< 20 ppm	ELISA
Total Fat %	11.83%	NIR

* Accreditations and certifications available upon request.

** Verification testing only, batch specific testing not performed. Specific testing is available for additional charge.

*** Gluten verification only guaranteed for gluten-free orders

**** Nutritional analysis, Fatty Acid Profile, and Amino Acid Profile are based on typical test results and should be used only to approximate the nutritional composition of any food formulations.

***** Fatty acids <0.04% (g/100g) not listed in Fatty Acid Profile



COURSE-GROUND HEMP SEED CAKE (HSC)

NUTRITIONAL ANALYSIS

NUTRIENTS	per 100 g
Calories (kcal)	400
Protein (g)	32.6
Carbohydrates (g)	47.9
Dietary Fiber (g)	45.5
Soluble Fiber (g)	0.7
Insoluble Fiber (g)	44.8
Total Sugars (g)	2.34
Added Sugar (g)	0
Sugar Alcohol (g)	0
Total Fat (g)	8.9
Saturated Fat (g)	1.4
Monounsaturated Fat (g)	0.8
Polyunsaturated Fat (g)	6.6
Omega 3 fatty acid (g)	1.57
Omega 6 fatty acid (g)	5.015
Omega 9 fatty acid (g)	0.789
Trans Fats (g)	0
Cholesterol (mg)	0

RADICAL SCAVENGING	%
DPPH Scavenging Activity (%)	NA

FATTY ACID PROFILE (%)	per 100 g
Palmitic acid 16:0	0.89
Palmitoleic acid 16:1	NA
Heptadecanoic acid 17:0	NA
Stearic acid 18:0	0.47
Oleic acid 18:1 n-9c/Elaidic acid 18:1 n-9t	0.79
Linoleic acid (LA) 18:2 n-6 cis	4.68
Alpha-Linolenic acid (ALA) 18:3 n-3	1.57
Gamma-Linolenic acid (GLA) 18:3 n-6	0.34
Linolenic acid 18:3 n-3	NA
cis-vaccenic acid 18:1 n-7	0.08
Arachidic acid 20:0	0.08
cis-11,14-Eicosadienoic acid 20:2	NA
Behenic acid 22:0	<0.1
Lignoceric acid 24:0	<0.1

VITAMINS	per 100 g
Beta-Carotene (mcg)	NA
Vitamin A (mcg)	NA
Vitamin B1 (mg)	NA
Vitamin B2 (mg)	NA
Vitamin B3 (mg)	NA
Vitamin B6 (mg)	NA
Vitamin B9 Folic Acid (mcg)	NA
Vitamin B12 (ug)	NA
Vitamin C (mg)	NA
Vitamin D (mcg)	NA
Vitamin E (γ-tocopherol) (mg)	NA
Vitamin E (Alpha-tocopherol) (mg)	NA
Pantothenic Acid (mg)	NA

AMINO ACID PROFILE (%)	per 100 g
Alanine	1.8
Arginine	4.04
Aspartic Acid	5.61
Cystine	0.43
Glutamic Acid	8.49
Glycine	1.42
Histidine	0.69
Isoleucine	0.95
Leucine	2.09
Lysine	1.12
Methionine	0.57
Phenylalanine	1.51
Proline	0.66
Serine	4.71
Threonine	1.03
Tryptophan	0.02
Tyrosine	1.03
Valine	0.97

MINERALS	per 100 g
Sodium (mg)	6.18
Magnesium (mg)	469.0
Phosphorous (mg)	880.0
Potassium (mg)	833.0
Calcium (mg)	123.0
Manganese (mg)	9.3
Iron (mg)	9.29
Nickel (mg)	NA
Copper (mg)	1.8
Zinc (mg)	6.82