



COLD-PRESSED HEMP SEED OIL (HSO)

PRODUCT OVERVIEW

Description:	Cold-Pressed Hemp Seed Oil (HSO) – Conventional or Organic
Common Names:	Cold-Pressed Hemp Seed Oil, Hemp Seed Oil, Hemp Oil
Ingredients:	Cold-Pressed Hemp Seed Oil
Hemp Varieties:	Finola, CFX-1, CFX-2, CRS-1, Canma, Grandi, Granma, Katani, Piccolo, X-59
Purity:	99.9%
Shelf Life:	9 months from date of manufacture
Storage:	Store in cool, dry place, at ambient temperatures. 30-50% RH. Keep away from heat or light.
Packaging:	1,000L (265 gal) tote, 200L (52 gal) drum, 20L (5 gal) pail.
Allergen:	Does not contain any major allergens as defined by the FDA or CFIA
Accreditations*:	BRCGS certified Organic (USDA NOP / COR / EUEQ), Non-GMO, Kosher (OU), Halal
Protein Digestibility****:	PDCAAS = Not Applicable
Treatment:	No preservatives, no irradiation

TEST	SPECIFICATION	METHOD
ORGANOLEPTIC		
Appearance	Semi-translucent, green vegetable oil	Internal SOP
Flavor & Odor	Nutty, hemp flavor and odor	Internal SOP
MICROBIOLOGICAL		
Standard Plate Count (SPC)	<10,000 cfu/g	AOAC 990.12
Total Coliform	<100 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)	0-5 meq O ₂ /kg	AOCS Cd 8b-90 / NIR
Free Fatty Acid (FFA)	<2 % (oleic acid)	AOCS Ca 5a-40 / 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**	<10 ppm	AFVAN-SLMF-0027 / HPLC-MSMS
Total CBD**	<150 ppm	AFVAN-SLMR-0074 / HPLC-MSMS
Gluten***	<20 ppm	ELISA
Total Fat %	97.17%	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



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NUTRITIONAL ANALYSIS

NUTRIENTS	per 100 g
Calories (kcal)	900
Protein (g)	0.08
Carbohydrates (g)	0.15
Dietary Fiber (g)	0
Soluble Fiber (g)	0
Insoluble Fiber (g)	0
Total Sugars (g)	0
Added Sugar (g)	0
Sugar Alcohol (g)	0
Total Fat (g)	99.75
Saturated Fat (g)	9.80
Monounsaturated Fat (g)	11.83
Polyunsaturated Fat (g)	78.25
Omega 3 fatty acid (g)	18.48
Omega 6 fatty acid (g)	59.77
Omega 9 fatty acid (g)	11.72
Trans Fats (g)	0
Cholesterol (mg)	0
Total Polyphenols (mg)	47.53

VITAMINS	per 100 g
Beta-Carotene (mcg)	285
Vitamin A (mcg)	NA
Vitamin B1 (mg)	0
Vitamin B2 (mg)	0
Vitamin B3 (mg)	NA
Vitamin B6 (mg)	NA
Vitamin B9 Folic Acid (mcg)	0
Vitamin B12 (ug)	NA
Vitamin C (mg)	NA
Vitamin D (mcg)	0
Vitamin E (Alpha-tocopherol) (mg)	7.15
Vitamin E (Y-tocopherol) (mg)	29.70

MINERALS	per 100 g
Sodium (mg)	0
Magnesium (mg)	NA
Phosphorous (mg)	NA
Potassium (mg)	NA
Calcium (mg)	0.4
Manganese (ug)	NA
Iron (mg)	0.3
Cobalt (ug)	NA
Nickel (ug)	NA
Copper (ug)	NA
Zinc (mg)	NA
Molybdenum (ug)	NA

RADICAL SCAVENGING	%
DPPH Scavenging Activity (%)	14.88

FATTY ACID PROFILE (%)	per 100 g
Myristic acid 14:0	0.04
Palmitic acid 16:0	5.58
Palmitoleic acid 16:1	NA
Stearic acid 18:0	2.53
Oleic acid 18:1 n-9c/Elaidic acid 18:1 n-9t	10.50
Linoleic acid (LA) 18:2 n-6 cis	55.41
Alpha-Linolenic acid (ALA) 18:3 n-3	17.10
Gamma-Linolenic acid (GLA) 18:3 n-6	4.29
Stearidonic acid (SDA) 18:4 n-3	1.38
Arachidic acid 20:0	1.01
cis-11-Eicosenoic acid 20:1	0.40
cis-11,14-Eicosadienoic acid 20:2	0.82
Behenic acid 22:0	0.43
Lignoceric acid 24:0	0.20

AMINO ACID PROFILE (%)	per 100 g
Alanine	NA
Arginine	NA
Aspartic Acid	NA
Cystine	NA
Glutamic Acid	NA
Glycine	NA
Histidine	NA
Isoleucine	NA
Leucine	NA
Lysine	NA
Methionine	NA
Phenylalanine	NA
Phenylalanine	NA
Proline	NA
Serine	NA
Threonine	NA
Tryptophan	NA
Tyrosine	NA
Valine	NA