



<b>Title:</b>	<b>Specification - Hemp Seed Oil</b>	Document #:	<b>SPEC-011</b>
Location:	Fresh Hemp Foods : Winnipeg	Doc Phase:	Released
Approved by:	QC Manager	Revision:	7
Revised by:	Danielle Gagnon	Effective Date:	30-Jan-2020

PRODUCT DESCRIPTION	
Description	Hemp Seed Oil is a cold-pressed oil made from industrial hemp seed ( <i>Cannabis sativa</i> L.) and is not genetically modified. This oil has been extracted using an expeller-type press.
Flavor & Odor	Mild, nutty flavor with hemp aroma
Color & Appearance	Light to dark green viscous, translucent liquid
Ingredients	Cold-pressed hemp seed oil
Shelf-life	8 months from the date of packaging when stored in original packaging
Storage	Keep stored in a cool, dry place at ambient temperature. Keep away from heat or light. Humidity between 30-50%. Refrigerate after opening for freshness (not required for microbiological / food safety control).
Certifications	<p><b>Organic</b> status: this product may be certified organic by Pro-Cert, where indicated.</p> <p><b>Kosher</b> status: this product is certified OU Pareve.</p> <p><b>Non-GMO</b> status: this product is Non-GMO Project Verified.</p> <p><b>Halal</b> status: this product is Halal certified.</p>
Allergen statement	<b>Allergen:</b> this product does not contain any of the top recognized “major” allergens (sesame seeds, eggs, seafood, milk, peanuts, soy, tree nuts, wheat, sulphite, mustard).

PRODUCT SPECIFICATION		
TEST	SPECIFICATION	METHOD
<b>MICROBIAL QUALITY</b>		
Standard Plate Count	≤ 10,000 cfu/g	AOAC 990.12
Coliforms	< 100 cfu/g	AOAC 991.14
<i>E. coli</i>	< 10 cfu/g	AOAC 991.14
<i>E. coli</i> 0157:H7	Negative	MFLP-30 or MFHPB-10 *
<i>Salmonella</i>	Negative	MFLP-29 *
Yeast & Mold	< 1,000 cfu/g	AOAC 2014.05
<b>CHEMICAL &amp; ELEMENTAL IMPURITIES</b>		
Pesticides	All contracted hemp seed growers are obliged by contract to grow all hemp seed crops without the use of in-crop pesticides.	
Residual Solvents	All hemp and hemp derived products are processed without the use of solvents.	
Heavy Metals	Cadmium < 0.5 ppm Lead < 0.5 ppm Arsenic < 1.5 ppm Mercury < 1.5 ppm	ICP-MS * (limits based on USP)
Mycotoxins	< 20 ppb	Elisa or LCMSMS *
THC	< 10 ppm	GC-MS *
Gluten	< 20 ppm	ELISA
Peroxide Value	< 4.0 meq/kg	AOCS Cd 8b-90*
Free Fatty Acid	< 2.0 %	AOCS Ca 5a-40*

\* Tested at an ISO/IEC 17025:2005 accredited 3<sup>rd</sup> party Laboratory  
 \*\* Nutritional profile and Fatty Acid Profile are based on typical test results, not a complete list of all fatty acids or amino acids. These are average values and should be used only to approximate the nutritional composition of any food formulations



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**NUTRITIONAL PER 100 GRAMS \*\***

Nutrients	Per 100g
<b>BASIC COMPONENTS</b>	
Calories (kcal)	897.75
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
Fat (g)	99.75
Saturated Fat (g)	9.80
Mono Fat (g)	11.83
Poly Fat (g)	77.87
Omega 3 Polyunsaturated fatty acids (g)	18.48
Omega 6 Polyunsaturated fatty acids (g)	59.77
Omega 9 fatty acids (g)	11.73
Trans Fatty Acid (g)	0.14
Cholesterol (mg)	0
<b>Other Nutrients</b>	
Sugar Alcohol (g)	0

Nutrients	Per 100g
<b>Vitamins</b>	
Vitamin A – RAE (mcg)	-
Beta-Carotene (mcg)	-
Vitamin B1 (mg)	0
Vitamin B2 (mg)	0
Vitamin B3 (mg)	-
Vitamin B6 (mg)	-
Vitamin B12 (µg)	-
Vitamin C (mg)	-
Vitamin D (mcg)	0
Vitamin E – Alpha-tocopherol (mg)	7.43
Folic Acid (mcg)	0
Pantothenic acid (mg)	-
<b>Minerals</b>	
Calcium (mg)	0.40
Copper (mg)	-
Iron (mg)	0.30
Phosphorus (mg)	-
Magnesium (mg)	-
Manganese (mg)	-
Potassium (mg)	0
Sodium (mg)	0
Zinc (mg)	-

**NUTRITIONAL PER 100 GRAMS \*\***

Nutrients	Per 100g
<b>Amino Acid Profile (%)</b>	
Linoleic acid (LA) (Omega 6)	55.41
Alpha Linolenic acid (ALA) (Omega 3)	17.10
Oleic acid (Omega 9)	10.50
Palmitic acid	5.58
Gamma linolenic acid (GLA) (Omega 6)	4.29
Stearic acid	2.53
Stearidonic acid (SDA) (Omega 3)	1.38
Arachidic acid	1.01
C20 cis-11-eicosenoic	0.45
Behenic acid	0.43
Lignoceric acid	0.20
Myristic Acid	0.04