

HEMP SEED OIL – COLD-PRESSED MULTIPURPOSE OIL

CERTIFICATE OF ANALYSIS REPORT

Reference No: dtech/19-20/10007-01

Date: 29.05.19

Batch No: 0119-01-A

Mfg. Date: 20.01.19

General parameters

Appearance	Clear oil	-
Color	Light-dark green	-
Transparency	Translucent	-
Smell	Nutty smell	-
Taste	Nutty flavour	-
Impurity	Free from Impurities	-
pH	5.951	-

Nutritional analysis (%)

Moisture	0.09	-
Total Ash	<0.1	-
Protein	<0.1	-
Fat	99.91	-
Carbohydrates	<1.0	-
Calories	899.55kcal/100g	-
Specific gravity	0.9236	-
Saponification value	192.78	-
Iodine value	155.68	-
Free fatty acids	3.34	-
Trans fat	<0.1	0.1
Saturated fat	13.31	0.1
Monounsaturated fatty acids	12.79	0.1
Polyunsaturated fatty acids	73.81	0.1

Other parameters (%)

Peroxide value	4.22mEq/kg	-
Omega 3	19.52	0.1
Omega 6	54.28	0.1
Omega 9	12.54	0.1
Phenolics	2.25mg/100gGAE	-
Iron (as Fe)	BLQ	0.1
Calcium (as Ca)	29.97mg/100g	0.01
Methanol	11.02mg/kg	0.5
Ethanol content	3.75mg/kg	0.5

Microbiological analysis

Total Plate Count	30 cfu/g
Yeast & Mould Count	<10 cfu/g
Coliform Count	<10 cfu/g
Detection of <i>E.coli</i>	Absent/g
Detection of <i>S.aureus</i>	Absent/g
Detection of <i>Salmonella</i>	Absent/25g

Fatty acid profile (%)

Capric acid	<0.1	0.1
Undecanoic acid	<0.1	0.1
Lauric acid	<0.1	0.1
Tridecanoic acid	<0.1	0.1
Myristic acid	<0.1	0.1
Myristoleic acid	<0.1	0.1
Pentadecanoic acid	<0.1	0.1
cis-10-Pentadecanoic acid	<0.1	0.1
Palmitic acid	8.70	0.1
Palmitoleic acid	0.11	0.1
Heptadecanoic acid	<0.1	0.1
cis-10-Heptadecanoic acid	<0.1	0.1
Stearic acid	3.44	0.1
Oleic acid	12.54	0.1
trans-Elaidic acid	<0.1	0.1
Lenoleic acid	53.68	0.1
trans-Lenolelaidic acid	<0.1	0.1
alpha-Linolenic acid	19.52	0.1
Gamma-Linolenic acid	0.61	0.1
Arachidic acid	0.75	0.1
cis-11-Eicosadienoic acid	0.14	0.1
cis-11,14-	<0.1	0.1
Eicosadienoic acid		
cis-11,14,17 –Eicosatrienoic acid	<0.1	0.1
cis-8,11,14- Eicosatrienoic acid	<0.1	0.1
Arachidonic acid	<0.1	0.1
cis -5, 8, 11, 14,17-Eicosapentanoic acid (EPA)	<0.1	0.1
Heneicosanoic acid	<0.1	0.1
Behenic acid	0.30	0.1
Erucic acid	<0.1	0.1
cis -13.16-Docosadienoic acid	<0.1	0.1
cis -4. 7. 10. 13,16,19-	<0.1	0.1
Docosahexaenoic acid (DHA)		
Tricosanoic acid	<0.1	0.1
Lignoceric acid	0.12	0.1
Butyric acid	<0.1	0.1
Nervonic acid	<0.1	0.1
Caproic acid	<0.1	0.1
Caprylic acid	<0.1	0.1

Heavy metal analysis (mg/kg)

Lead (as Pb)	0.36	0.01
Arsenic (as As)	0.14	0.01
Cadmium (as Cd)	BLQ	0.01
Mercury (as Hg)	BLQ	0.01

Note: BLQ-Below Limit of Quantification

*The tests were outsourced to an NABL accredited laboratory ULR NO.: TCS96019000028130P

1. The results reported relate only to the sample(s) tested.

2. This test report, in full or in part, shall not be reproduced, used for any legal action, without prior written approval of laboratory.

3. The tests marked with #are subcontracted.

4. The Report no. with suffix R- Revised Report.