



**DOCUMENT NAME:**

Certificate of Analysis

- **PURPOSE OF THE DOCUMENT:**  
determination of quality indicators  
Cold pressed hemp oil Leodar
- **REGISTRATION NUMBER:**  
859840
- **DATE OF ENTRY INTO FORCE OF THE DOCUMENT:**  
03.03.2022
- **VALIDITY PERIOD OF THE DOCUMENT:**
- **NAME OF THE CERTIFYING AUTHORITY:**  
Certified Laboratories, USA
- **KEYWORDS IN THE DOCUMENT:**  
analyte, omega fatty acids, fumonisin,  
metals, fatty acid profile



# Certificate of Analysis

INDUSTRIAL INNOVATION GROUP LLC  
MALEHA STREET  
INDUSTRIAL AREA 18  
SHARJAH  
ATT: TATJANA PACHMANOVA

REPORT #: 859840  
PROJECT ID: NY17585-2201-001  
REPORT DATE: 3/3/22  
PRINT DATE: 3/3/22

LAB #: 3025323

DATE RECEIVED: 1/27/22

PRODUCT: COLD PRESSED HEMP SEED OIL

PACKAGE: IN SEALED GLASS BOTTLE

<u>ANALYTE</u>	<u>RESULT UNITS</u>	<u>METHOD REFERENCE</u>
AEROBIC PLATE COUNT	270 CFU/g	APHA CMMEF CHP 58
BACILLUS CEREUS GROUP COUNT	<10 CFU/g	APHA CMMEF CHP 31
COLIFORM	<10 CFU/g	ISO 4832:2006
ENTEROBACTERIACEAE	<10 CFU/g	ISO/TS 21528-2
E. COLI O157:H7	NEGATIVE /25g	AOAC RI 060903
SALMONELLA	NEGATIVE /25g	AOAC 2011.03
STAPHYLOCOCCUS AUREUS	<10 CFU/g	AOAC 2003.07
SULFIDE SPOILAGE SPOREFORMERS	<2.5 CFU/10g	APHA CMMEF CHP 28
YEAST	<10 CFU/g	APHA CMMEF CHP 21
MOLD	<10 CFU/g	APHA CMMEF CHP 21
ALLERGEN GLUTEN	<5.0 ppm	AOAC 2012.01 ELISA (R-BIOPHARM RIDASCREEN)
DENSITY	0.913 g/mL	AOAC 985.19
FFA AS OLEIC ACID	1.11 %	AOCS CA 5A-40
INSOLUBLE IMPURITIES	0.140 %	AOCS CA 3A-46
IODINE VALUE	136	AOAC 920.158
MOISTURE	0.14 %	AOCS CA 2C-25
PEROXIDE VALUE	3.9 meq/kg	AOAC 965.33
SAPONIFICATION VALUE	206	USP <401>
<u>AFLATOXIN BY HPLC</u>		AOAC 2005.08
AFLATOXIN B1	2.3 ppb	
AFLATOXIN B2	0.2 ppb	
AFLATOXIN G1	<0.2 ppb	
AFLATOXIN G2	<0.2 ppb	
TOTAL AFLATOXIN	2.5 ppb	
THC	N.D. <0.3 %	UPLC
<u>FATTY ACID PROFILE</u>		AOCS CE 1F-96
PALMITIC (16:0)	7.4 % of fat	
STEARIC (18:0)	2.4 % of fat	
OLEIC (18:1 CIS)	20.8 % of fat	
ELAIDIC (18:1 TRANS)	NOT DETECTED % of fat	
LINOLEIC (18:2 CIS)	53.6 % of fat	
LINOLENIC (18:3 CIS)	14.8 % of fat	
ARACHIDIC (20:0)	1.0 % of fat	

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TOTAL SATURATED	11 % of fat	
TOTAL MONOUNSATURATED	21 % of fat	
TOTAL POLYUNSATURATED	68 % of fat	
TOTAL TRANS	0 % of fat	
<u>OMEGA FATTY ACIDS</u>		AOCS CE 1F-96
TOTAL OMEGA-3	13,200 mg/100g	
TOTAL OMEGA-6	55,200 mg/100g	
TOTAL OMEGA-9	19,600 mg/100g	
<u>FUMONISIN</u>		LCMS
FUMONISIN B1	<0.1 ppm	
FUMONISIN B2	<0.1 ppm	
FUMONISIN B3	<0.1 ppm	
<u>METALS BY ICP-MS</u>		FDA EAM 4.7
CADMIUM	<10.0 ppb	
MERCURY	<10.0 ppb	
LEAD	24.1 ppb	
OCHRATOXIN A	<1.0 ppb	HPLC
VOMITOXIN	<0.6 ppm	LCMS
ZEARALENONE	<51.7 ppb	LCMS

IF THE ALLERGEN RESULT ON THIS CERTIFICATE OF ANALYSIS IS NOT PRECEDED BY A "<" (LESS THAN) SYMBOL, THE RESULT WAS PRESUMPTIVE FOR THE INDICATED ALLERGEN. FOR ALL SCREENING ASSAYS, DETECTABLE OR QUANTIFIABLE LEVELS OF ALLERGEN PROTEINS ARE CONSIDERED PRESUMPTIVE UNTIL CONFIRMED VIA ALTERNATIVE ANALYSIS. ADDITIONAL SCREENING USING AN ALTERNATIVE ASSAY OR TECHNOLOGY IS GENERALLY RECOMMENDED TO CONFIRM AN INITIAL PRESUMPTIVE VALUE. PLEASE CONTACT YOUR LOCAL SERVICING LABORATORY TO DISCUSS OPTIONS FOR CONFIRMATION ANALYSIS.

Kurtis Kneen  
Laboratory Director

END OF REPORT