

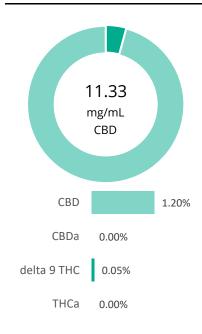
prepared for: NED & CO. LLC

5345 Arapahoe Ave STE 4 BOULDER, CO 80303

NED-FSO-B033-300

Batch ID:	Full Spectrum Hemp Oil Batch 033 300	Test ID:	T000162042
Туре:	Solution	Submitted:	09/08/2021 @ 12:03 PM
Test:	Potency	Started:	9/13/2021
Method:	TM14 (HPLC-DAD)	Reported:	9/14/2021

CANNABINOID PROFILE



Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.12	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.13	0.50	0.5
Cannabidiolic acid (CBDA)	0.14	ND	ND
Cannabidiol (CBD)	0.14	11.33	12.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.15	ND	ND
Cannabinolic Acid (CBNA)	0.08	ND	ND
Cannabinol (CBN)	0.04	ND	ND
Cannabigerolic acid (CBGA)	0.12	ND	ND
Cannabigerol (CBG)	0.03	0.60	0.6
Tetrahydrocannabivarinic Acid (THCVA)	0.10	ND	ND
Tetrahydrocannabivarin (THCV)	0.03	ND	ND
Cannabidivarinic Acid (CBDVA)	0.06	ND	ND
Cannabidivarin (CBDV)	0.03	0.05	0.1
Cannabichromenic Acid (CBCA)	0.05	ND	ND
Cannabichromene (CBC)	0.05	0.44	0.5
Total Cannabinoids		12.92	13.6
Total Potential THC**		0.50	0.5
Total Potential CBD**		11.33	12.0

NOTES:

Density = 0.947523g/mL

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877))

ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

Danuel Wortnoon

Daniel Weidensaul 14-Sep-2021 10:45 AM

Mygun Neus

Rvan Weems 14-Sep-2021 10:46 AM

PREPARED BY / DATE APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



^{*} Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

^{**} Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.



prepared for: NED & CO. LLC

5345 Arapahoe Ave STE 4 BOULDER, CO 80303

NED-FSO-B033-300

Batch ID:	Full Spectrum Hemp Oil Batch 033 300	Test ID:	T000162043
Туре:	Unit	Submitted:	09/08/2021 @ 12:03 PM
Test:	Trace THC	Started:	9/10/2021
Method:	TM20 (HPLC-DAD)	Reported:	9/13/2021

TRACE THC/THCa PROFILE

Compound	Dynamic Range (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.001 - 0.681	0.050	0.50
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002 - 1.362	0.005	0.05
Total Potential THC*		0.054	0.54

NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Potential THC is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step. Total THC = THC + (THCa *(0.877))

** ND = None Detected (Defined by Dynamic Range of the method)

*** ALOO = Above Limit Of Quantitation (Defined by Dynamic Range of the method)

FINAL APPROVAL

Sam Smith Samantha Smods 13-Sep-2021

1:12 PM

Daniel Wardmand

Daniel Weidensaul 13-Sep-2021 1:19 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories,



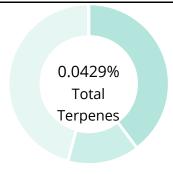
prepared for: NED & CO. LLC

5345 Arapahoe Ave STE 4 BOULDER, CO 80303

NED-FSO-B033-300

Batch ID:	Full Spectrum Hemp Oil Batch 033 300	Test ID:	T000162044
Туре:	Concentrate	Submitted:	09/08/2021 @ 12:03 PM
Test:	Terpenes	Started:	9/13/2021
Method:	TM22 (GC-MS)	Reported:	9/14/2021

TERPENE PROFILE



PREDOMINANT	TERPENES

alpha-Pinene	0.0000			
(-)-beta-Pinene	0.0000			
beta-Myrcene	0.0000			
delta-3-Carene	0.0000			
alpha-Terpinene	0.0000			
d-Limonene	0.0000			
Linalool	0.0000			
beta-Caryophyllene			0.02	163
alpha-Humulene		0.0059		
(-)-alpha-Bisabolol				0.0

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0188	0.188
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0163	0.163
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0059	0.059
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0000	0.000
beta-Myrcene	0.0000	0.000
cis-Nerolidol	0.0006	0.006
trans-Nerolidol	0.0013	0.013
Ocimene	0.0000	0.000
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.0000	0.000
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0000	0.000
gamma-Terpinene	0.0000	0.000
Terpinolene	0.0000	0.000
	0.0429	0.429

0/ /---

NOTES:

N/A

FINAL APPROVAL

Daniel Wastersand

Daniel Weidensaul 14-Sep-2021 4:51 PM

Majour News

Rvan Weems 14-Sep-2021 4:52 PM

PREPARED BY / DATE APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02





Certificate #4329.02



Prepared for:

NED-FSO-B033-300

NED & CO. LLC

Batch ID or Lot Number: Full Spectrum Hemp Oil Batch 033 300	Test: Residual Solvents	Reported: 9/13/21	Location: 5345 Arapahoe Ave STE 4 BOULDER, CO 80303
Matrix:	Test ID:	Started:	USDA License:
N/A	T000162048	9/10/21	N/A
Status:	Methods:	Received:	Sampler ID:
N/A	TM04 (GC-MS): Residual Solvent	cs 09/08/2021 @ 12:03 PM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	77 - 1533	*ND	_
Butanes sobutane, n-Butane)	147 - 2944	*ND	
Methanol	55 - 1096	*ND	
Pentane	81 - 1621	*ND	
Ethanol	87 - 1747	*ND	
Acetone	89 - 1789	*ND	
Isopropyl Alcohol	93 - 1860	*ND	
Hexane	5 - 108	*ND	
Ethyl Acetate	85 - 1704	*ND	
Benzene	0 - 4	*ND	
Heptanes	86 - 1713	*ND	
Toluene	16 - 322	*ND	
(m.n.o-Xylenes)	116 - 2326	*ND	

Samantha Smods

Sam Smith 13-Sep-21 9:56 AM Physin Views

Ryan Weems 13-Sep-21 9:58 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

* ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.





Prepared for:

NED-FSO-B033-300

NED & CO. LLC

Batch ID or Lot Number: Full Spectrum Hemp Oil Batch 033 300	Test: Pesticides	Reported: 9/15/21	Location: 5345 Arapahoe Ave STE 4 BOULDER, CO 80303
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000162045	9/14/21	N/A
Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	09/08/2021 @ 12:03 PM	N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	43	ND	Fenoxycarb	43	ND	Paclobutrazol	43	ND
Acetamiprid	40	ND	Fipronil	48	ND	Permethrin	287	ND
Avermectin	283	ND	Flonicamid	39	ND	Phosmet	44	ND
Azoxystrobin	43	ND	Fludioxonil	296	ND	Prophos	283	ND
Bifenazate	45	ND	Hexythiazox	47	ND	Propoxur	40	ND
Boscalid	59	ND	Imazalil	256	ND	Pyridaben	285	ND
Carbaryl	39	ND	Imidacloprid	38	ND	Spinosad A	35	ND
Carbofuran	40	ND	Kresoxim-methyl	150	ND	Spinosad D	50	ND
Chlorantraniliprole	56	ND	Malathion	292	ND	Spiromesifen	231	ND
Chlorpyrifos	500	ND	Metalaxyl	42	ND	Spirotetramat	329	ND
Clofentezine	276	ND	Methiocarb	40	ND	Spiroxamine 1	17	ND
Diazinon	282	ND	Methomyl	42	ND	Spiroxamine 2	23	ND
Dichlorvos	254	ND	MGK 264 1	161	ND	Tebuconazole	286	ND
Dimethoate	41	ND	MGK 264 2	133	ND	Thiacloprid	42	ND
E-Fenpyroximate	236	ND	Myclobutanil	40	ND	Thiamethoxam	43	ND
Etofenprox	43	ND	Naled	40	ND	Trifloxystrobin	43	ND
Ftoxazole	269	ND	Oxamvl	1500	ND			

Samantha Smoll

Sam Smith 9/15/2021 10:08:00 AM

My Ny

Alex Benson 9/15/2021 2:50:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.





Certificate #4329.02



prepared for: NED & CO. LLC 5345 ARAPAHOE AVE STE 4 BOULDER, CO 80303

NED-FSO-B033-300

Batch ID:	Full Spectrum Hemp Oil Batch 033 300	Test ID:	T000162046
Matrix:	Finished Product	Received:	09/08/2021 @ 12:03 PM
Test:	Microbial Contaminants	Started:	9/9/2021
Method:	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	Reported:	9/12/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26 Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
Total Coliforms*	TM-27 Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Molds*	TM-24 Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli	TM-28 Culture Plating	1 CFU/g	NA	NA	Absent
E. coli (STEC)	TM-25 PCR	1 CFU/g	NA	NA	Absent
Salmonella	TM-25 PCR	1 CFU/g	NA	NA	Absent

^{*} Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

10^2 = 100 CFU Examples:

10^3 = 1,000 CFU

10^4 = 10,000 CFU

10^5 = 100,000 CFU

NOTES:

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

CFU/g = Colony Forming Units per Gram.

LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation

LLOQ = Lower Limit of Quantitation

FINAL APPROVAL

Est Taken

Brett Hudson 9/12/2021 11:19:00 AM

Sarah Henning 9/12/2021 1:42:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.







Prepared for:

NED-FSO-B033-300

NED & CO. LLC

Batch ID or Lot Number: Full Spectrum Hemp Oil Batch 033 300	Test: Metals	Reported: 9/15/21	Location: 5345 Arapahoe Ave STE 4 BOULDER, CO 80303
Matrix:	Test ID:	Started:	USDA License:
Unit	T000162047	9/14/21	N/A
Status:	Method:	Received:	Sampler ID:
N/A	TM19 (ICP-MS): Heavy Metals	09/08/2021 @ 12:03 PM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Not
Arsenic	0.051 - 5.07	ND	
Cadmium	0.047 - 4.69	ND	
Mercury	0.045 - 4.51	ND	
Lead	0.048 - 4.82	ND	

Samantha Smod

Sam Smith 15-Sep-21 11:29 AM

Myon News

Ryan Weems 15-Sep-21 11:31 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

ND = None Detected (Defined by Dynamic Range of the method)

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.

