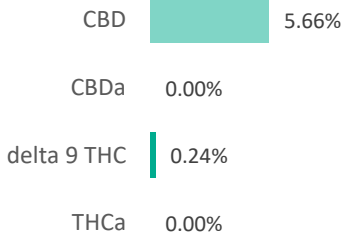
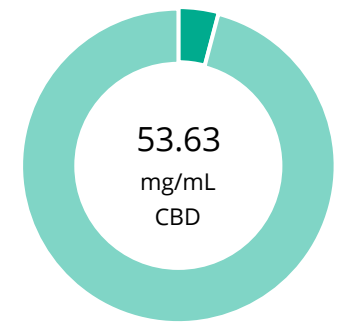


## NED-FSO-B033-1500 (Finished Product)

<b>Batch ID:</b>	Full Spectrum Hemp Oil Batch 033 1500mg	<b>Test ID:</b>	T000160706
<b>Type:</b>	Solution	<b>Submitted:</b>	08/30/2021 @ 02:29 PM
<b>Test:</b>	Potency	<b>Started:</b>	9/1/2021
<b>Method:</b>	TM14 (HPLC-DAD)	<b>Reported:</b>	9/2/2021

## CANNABINOID PROFILE



Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.42	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.47	2.30	2.4
Cannabidiolic acid (CBDA)	0.61	ND	ND
Cannabidiol (CBD)	0.60	53.63	56.6
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.52	ND	ND
Cannabinolic Acid (CBNA)	0.30	ND	ND
Cannabinol (CBN)	0.14	ND	ND
Cannabigerolic acid (CBGA)	0.43	ND	ND
Cannabigerol (CBG)	0.10	2.82	3.0
Tetrahydrocannabivarinic Acid (THCVA)	0.37	ND	ND
Tetrahydrocannabivarin (THCV)	0.09	ND	ND
Cannabidivarinic Acid (CBDVA)	0.26	ND	ND
Cannabidivarin (CBDV)	0.14	0.15	0.2
Cannabichromenic Acid (CBCA)	0.17	ND	ND
Cannabichromene (CBC)	0.18	1.99	2.1
<b>Total Cannabinoids</b>		<b>60.89</b>	<b>64.3</b>
Total Potential THC**		2.30	2.4
Total Potential CBD**		53.63	56.6

## NOTES:

Density = 0.947523g/mL

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

\* 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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

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

## FINAL APPROVAL

 Daniel Weidensaul 2-Sep-2021 3:00 PM	 Sam Smith 2-Sep-2021 3:03 PM
PREPARED BY / DATE	APPROVED BY / DATE

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Certificate #4329.02

## NED-FSO-B033-1500 (Finished Product)

<b>Batch ID:</b>	Full Spectrum Hemp Oil Batch 033 1500mg	<b>Test ID:</b>	T000160707
<b>Type:</b>	Unit	<b>Submitted:</b>	08/30/2021 @ 02:29 PM
<b>Test:</b>	Trace THC	<b>Started:</b>	9/2/2021
<b>Method:</b>	TM20 (HPLC-DAD)	<b>Reported:</b>	9/7/2021

## TRACE THC/THCa PROFILE

Compound	Dynamic Range (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.001 - 0.684	0.240	2.40
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002 - 1.369	ND**	ND**
Total Potential THC*		0.240	2.40



## 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

Daniel Weidensaul  
3-Sep-2021  
2:16 PMSam Smith  
7-Sep-2021  
9:07 AM

PREPARED BY / DATE

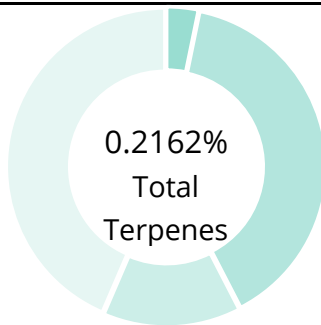
APPROVED BY / DATE

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## NED-FSO-B033-1500 (Finished Product)

<b>Batch ID:</b>	Full Spectrum Hemp Oil Batch 033 1500mg	<b>Test ID:</b>	T000160708
<b>Type:</b>	Concentrate	<b>Submitted:</b>	08/30/2021 @ 02:29 PM
<b>Test:</b>	Terpenes	<b>Started:</b>	8/30/2021
<b>Method:</b>	TM22 (GC-MS)	<b>Reported:</b>	8/31/2021

## TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0893	0.893
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0804	0.804
(-)-Caryophyllene Oxide	0.0058	0.058
p-Cymene	0.0000	0.000
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0288	0.288
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0066	0.066
beta-Myrcene	0.0000	0.000
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0053	0.053
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
<b>Total</b>	<b>0.2162</b>	<b>2.162</b>

## 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	0.0066
beta-Caryophyllene	0.0804
alpha-Humulene	0.0288
(-)-alpha-Bisabolol	0.0893

## NOTES:

N/A

## FINAL APPROVAL



 Daniel Weidensaul  
 31-Aug-2021  
 3:19 PM



 Ryan Weems  
 31-Aug-2021  
 3:21 PM

PREPARED BY / DATE

APPROVED BY / DATE

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A2LA Certificate Number 4329.02



Certificate #4329.02


Prepared for:


**NED-FSO-B033-1500 (Finished Product)**
**NED & CO. LLC**

Batch ID or Lot Number: <b>Full Spectrum Hemp Oil Batch 033</b>	Test: <b>Residual Solvents</b>	Reported: <b>9/1/21</b>	Location: 5345 Arapahoe Ave STE 4 BOULDER, CO 80303
Matrix: N/A	Test ID: T000160712	Started: 9/1/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents	Received: 08/30/2021 @ 02:29 PM	Sampler ID: N/A

## RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	99 - 1983	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	187 - 3746	*ND	
<b>Methanol</b>	63 - 1268	*ND	
<b>Pentane</b>	99 - 1981	*ND	
<b>Ethanol</b>	103 - 2065	133	
<b>Acetone</b>	106 - 2113	*ND	
<b>Isopropyl Alcohol</b>	115 - 2295	*ND	
<b>Hexane</b>	7 - 131	*ND	
<b>Ethyl Acetate</b>	106 - 2114	*ND	
<b>Benzene</b>	0 - 4	*ND	
<b>Heptanes</b>	103 - 2061	*ND	
<b>Toluene</b>	19 - 383	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	139 - 2785	*ND	


 Sam Smith  
 1-Sep-21  
 4:04 PM


 Ryan Weems  
 1-Sep-21  
 4:05 PM

PREPARED BY / DATE

APPROVED BY / DATE

### Definitions

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

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Certificate #4329.02


Prepared for:


**NED-FSO-B033-1500 (Finished Product)**
**NED & CO. LLC**

Batch ID or Lot Number: <b>Full Spectrum Hemp Oil Batch 033 1500mg</b>	Test: <b>Pesticides</b>	Reported: <b>9/3/21</b>	Location: 5345 Arapahoe Ave STE 4 BOULDER, CO 80303
Matrix: Concentrate	Test ID: T000160709	Started: 9/2/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 08/30/2021 @ 02:29 PM	Sampler ID: N/A

**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	28	ND	Fenoxycarb	22	ND	Paclobutrazol	31	ND
Acetamiprid	27	ND	Fipronil	40	ND	Permethrin	307	ND
Avermectin	411	ND	Flonicamid	36	ND	Phosmet	32	ND
Azoxystrobin	36	ND	Fludioxonil	314	ND	Prophos	295	ND
Bifenazate	31	ND	Hexythiazox	31	ND	Propoxur	29	ND
Boscalid	38	ND	Imazalil	277	ND	Pyridaben	297	ND
Carbaryl	27	ND	Imidacloprid	27	ND	Spinosad A	24	ND
Carbofuran	28	ND	Kresoxim-methyl	150	ND	Spinosad D	58	ND
Chlorantraniliprole	49	ND	Malathion	317	ND	Spiromesifen	314	ND
Chlorpyrifos	500	ND	Metalaxyl	32	ND	Spirotetramat	351	ND
Clofentezine	306	ND	Methiocarb	30	ND	Spiroxamine 1	13	ND
Diazinon	310	ND	Methomyl	27	ND	Spiroxamine 2	18	ND
Dichlorvos	286	ND	MGK 264 1	190	ND	Tebuconazole	332	ND
Dimethoate	31	ND	MGK 264 2	123	ND	Thiacloprid	27	ND
E-Fenpyroximate	266	ND	Myclobutanil	39	ND	Thiamethoxam	26	ND
Etofenprox	31	ND	Naled	33	ND	Trifloxystrobin	30	ND
Etoxazole	331	ND	Oxamyl	1500	ND			

  
 Sam Smith  
 9/3/2021  
 11:49:00 AM

  
 Karen Winternheimer  
 9/3/2021  
 11:52:00 AM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

 LOQ = Limit of Quantification  
 ppb = Parts per Billion

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Certificate #4329.02

## NED-FSO-B033-1500 (Finished Product)

<b>Batch ID:</b>	Full Spectrum Hemp Oil Batch 033 1500mg	<b>Test ID:</b>	T000160710
<b>Matrix:</b>	Finished Product	<b>Received:</b>	08/30/2021 @ 02:29 PM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	8/31/2021
<b>Method:</b>	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	<b>Reported:</b>	9/3/2021

## MICROBIAL CONTAMINANTS

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

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

Examples: 10<sup>2</sup> = 100 CFU  
10<sup>3</sup> = 1,000 CFU  
10<sup>4</sup> = 10,000 CFU  
10<sup>5</sup> = 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

*Brianne Maillot*  
Brianne Maillot  
9/3/2021  
11:46:00 AM

*Tori King*  
Tori King  
9/3/2021  
1:44:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.03

Prepared for:

**NED-FSO-B033-1500 (Finished Product)**
**NED & CO. LLC**


Batch ID or Lot Number: <b>Full Spectrum Hemp Metals Oil Batch 033</b>	Test: <b>Metals</b>	Reported: <b>9/1/21</b>	Location: 5345 Arapahoe Ave STE 4 BOULDER, CO 80303
Matrix: Unit	Test ID: T000160711	Started: 8/31/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals	Received: 08/30/2021 @ 02:29 PM	Sampler ID: N/A

## HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.042 - 4.16	ND	
Cadmium	0.043 - 4.25	ND	
Mercury	0.043 - 4.26	ND	
Lead	0.039 - 3.94	ND	


 Ryan Weems  
 1-Sep-21  
 2:38 PM

PREPARED BY / DATE


 Sam Smith  
 1-Sep-21  
 2:41 PM

APPROVED BY / DATE

### Definitions

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

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