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CERTIFICATE OF ANALYSIS

Prepared for:
NED & CO. LLC
5345 Arapahoe Ave STE 4
BOULDER, CO USA 80303

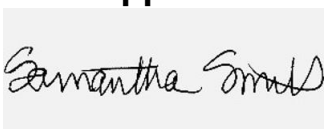
NED Full Spectrum Hemp Oil 1500mg Batch 036

Batch ID or Lot Number:	Test:	Reported:	USDA License:
NED-FSO-1500-B036	**Potency**	**25Sep2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Solution	T000256959	21Sep2023	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD)	21Sep2023	N/A

Cannabinoids

	LOD (mg/mL)	**LOQ** (mg/mL)	**Result** (mg/mL)	**Result** (mg/g)	**Notes**
Cannabichromene (CBC)	0.127	0.475	1.760	1.90	Density = 0.94g/mL
Cannabichromenic Acid (CBCA)	0.117	0.435	ND	ND	
Cannabidiol (CBD)	0.516	1.462	50.910	54.20	
Cannabidiolic Acid (CBDA)	0.530	1.500	ND	ND	
Cannabidivarin (CBDV)	0.122	0.346	<LOQ	<LOQ	
Cannabidivarinic Acid (CBDVA)	0.221	0.626	ND	ND	
Cannabigerol (CBG)	0.072	0.270	1.790	1.90	
Cannabigerolic Acid (CBGA)	0.302	1.128	ND	ND	
Cannabinol (CBN)	0.094	0.352	ND	ND	
Cannabinolic Acid (CBNA)	0.206	0.770	ND	ND	
Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.360	1.344	ND	ND	
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.327	1.220	1.800	1.90	
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.290	1.081	ND	ND	
Tetrahydrocannabivarin (THCV)	0.066	0.245	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.256	0.954	ND	ND	
Total Cannabinoids			**56.260**	**59.90**	
Total Potential THC			1.800	1.90	
Total Potential CBD			50.910	54.20	

Final Approval



Sam Smith
25Sep2023
03:07:00 PM MDT

PREPARED BY / DATE

Karen Winternheimer
25Sep2023
03:10:00 PM MDT

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https://results.botanacor.com/api/v1/coas/uuid/8f1985a7-4bdb-4e71-ac4e-a29dc61fd306

Definitions
% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).
Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)).

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NED & CO. LLC
5345 Arapahoe Ave STE 4
BOULDER, CO USA 80303

NED Full Spectrum Hemp Oil 1500mg Batch 036

Batch ID or Lot Number:	Test:	Reported:	USDA License:
NED-FSO-1500-B036	**Trace THC**	**26Sep2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit	T000256960	26Sep2023	NA
	Method(s):	Received:	Status:
	TM20 (HPLC-DAD)	21Sep2023	NA

Cannabinoids

	Dynamic Range (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.001 - 0.695	0.227	2.27	N/A
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.002 - 1.391	ND	0.00	N/A
Total Potential THC	**-**	**0.227**	**2.27**	

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Sam Smith
26Sep2023
05:03:00 PM MDT
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Karen Winternheimer
26Sep2023
05:06:00 PM MDT
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Definitions
% = % (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)
ALOQ = Above Limit Of Quantitation (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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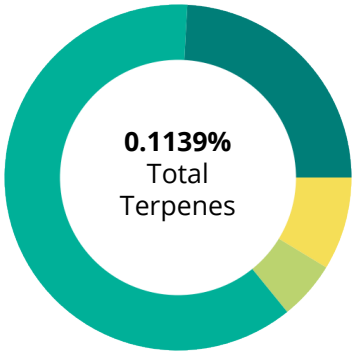
Prepared for:
NED & CO. LLC
5345 Arapahoe Ave STE 4
BOULDER, CO USA 80303

NED Full Spectrum Hemp Oil 1500mg Batch 036

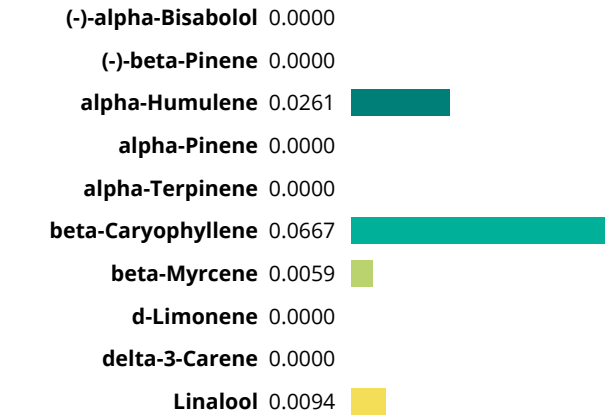
Batch ID or Lot Number:	Test:	Reported:	USDA License:
NED-FSO-1500-B036	**Terpenes**	**29Sep2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000256961	28Sep2023	NA
	Method(s):	Received:	Status:
	TM22 (GC-MS)	21Sep2023	NA

Terpenes

	%(w/w)	(mg/g)
(-)-alpha-Bisabolol	0.0000	0.0000
(-)-beta-Pinene	0.0000	0.0000
(-)-Caryophyllene Oxide	0.0000	0.0000
(-)-Isopulegol	0.0000	0.0000
alpha-Humulene	0.0261	0.261
alpha-Pinene	0.0000	0.0000
alpha-Terpinene	0.0000	0.0000
beta-Caryophyllene	0.0667	0.667
beta-Myrcene	0.0059	0.059
beta-Ocimene	0.0017	0.017
Camphene	0.0000	0.0000
cis-Nerolidol	0.0000	0.0000
d-Limonene	0.0000	0.0000
delta-3-Carene	0.0000	0.0000
Eucalyptol	0.0000	0.0000
gamma-Terpinene	0.0000	0.0000
Geraniol	0.0000	0.0000
Linalool	0.0094	0.094
Ocimene	0.0000	0.0000
p-Cymene	0.0000	0.0000
Terpinolene	0.0000	0.0000
trans-Nerolidol	0.0041	0.041
	0.1139	**1.1390**



PREDOMINANT TERPENES



Notes

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Karen Winternheimer
29Sep2023
09:49:00 AM MDT
PREPARED BY / DATE

Sam Smith
29Sep2023
09:52:00 AM MDT
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NED & CO. LLC
5345 Arapahoe Ave STE 4
BOULDER, CO USA 80303

NED Full Spectrum Hemp Oil 1500mg Batch 036

Batch ID or Lot Number:	Test:	Reported:	USDA License:
NED-FSO-1500-B036	**Residual Solvents**	**26Sep2023**	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000256965	26Sep2023	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	21Sep2023	Active

Residual Solvents

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Propane	94 - 1883	ND	
Butanes (Isobutane, n-Butane)	194 - 3879	ND	
Methanol	61 - 1213	ND	
Pentane	98 - 1959	ND	
Ethanol	99 - 1980	125	
Acetone	100 - 1993	ND	
Isopropyl Alcohol	102 - 2037	ND	
Hexane	6 - 118	ND	
Ethyl Acetate	100 - 1991	ND	
Benzene	0.2 - 4.0	ND	
Heptanes	99 - 1982	ND	
Toluene	18 - 360	ND	
Xylenes (m,p,o-Xylenes)	133 - 2653	ND	

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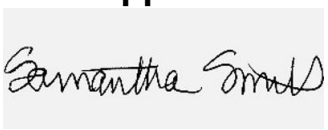

Sam Smith
26Sep2023
01:13:00 PM MDT

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Karen Winternheimer
26Sep2023
01:15:00 PM MDT

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Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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NED & CO. LLC
5345 Arapahoe Ave STE 4
BOULDER, CO USA 80303

NED Full Spectrum Hemp Oil 1500mg Batch 036

Batch ID or Lot Number:	Test:	Reported:	USDA License:
NED-FSO-1500-B036	**Microbial Contaminants**	**25Sep2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Finished Product	T000256963	21Sep2023	NA
	Method(s): TM25 (PCR) TM24, TM26, TM27 (Culture Plating)	Received: 21Sep2023	Status: NA

Microbial Contaminants

	Method	LOD	Quantitation Range	Result	Notes
STEC	TM25: PCR	10^0 CFU/25g	NA	Absent	Free from visual mold, mildew, and foreign matter
Salmonella	TM25: PCR	10^0 CFU/25g	NA	Absent	
Total Yeast and Mold*	TM24: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	None Detected	
Total Aerobic Count*	TM26: Culture Plating	10^2 CFU/g	$1.0x10^3$ - $1.5x10^5$	None Detected	
Total Coliforms*	TM27: Culture Plating	10^1 CFU/g	$1.0x10^2$ - $1.5x10^4$	None Detected	

Final Approval

Brett Hudson
24Sep2023
10:27:00 AM MDT

PREPARED BY / DATE

Brianne Maillot
25Sep2023
12:19:00 PM MDT

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https://results.botanacor.com/api/v1/coas/uuid/f1568f81-1af2-4986-87ac-019c29dfd94a

Definitions
* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: 10^2 = 100 CFU, 10^3 = 1,000 CFU, 10^4 = 10,000 CFU, 10^5 = 100,000 CFU
CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation
STEC = Shiga Toxin-Producing E. coli

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NED Full Spectrum Hemp Oil 1500mg Batch 036

Batch ID or Lot Number:	Test:	Reported:	USDA License:
NED-FSO-1500-B036	**Heavy Metals**	**25Sep2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000256964	22Sep2023	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	21Sep2023	NA

Heavy Metals

	Dynamic Range (ppm)	**Result** (ppm)	**Notes**
Arsenic	0.04 - 4.35	ND	
Cadmium	0.04 - 4.23	ND	
Mercury	0.04 - 4.27	ND	
Lead	0.04 - 4.35	ND	

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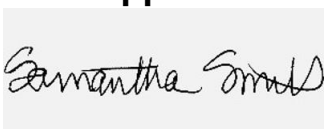

Sam Smith
25Sep2023
09:38:00 AM MDT

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Karen Winternheimer
25Sep2023
09:41:00 AM MDT

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Definitions
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Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

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BOULDER, CO USA 80303

NED Full Spectrum Hemp Oil 1500mg Batch 036

Batch ID or Lot Number:	Test:	Reported:	USDA License:
NED-FSO-1500-B036	**Pesticides**	**27Sep2023**	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000256962	26Sep2023	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	21Sep2023	NA

Pesticides

	Dynamic Range (ppb)	**Result** (ppb)
Abamectin	311 - 2689	ND
Acephate	47 - 2789	ND
Acetamiprid	40 - 2750	ND
Azoxystrobin	44 - 2737	ND
Bifenazate	39 - 2749	ND
Boscalid	42 - 2758	ND
Carbaryl	41 - 2732	ND
Carbofuran	40 - 2727	ND
Chlorantraniliprole	45 - 2795	ND
Chlorpyrifos	46 - 2687	ND
Clofentezine	284 - 2765	ND
Diazinon	274 - 2760	ND
Dichlorvos	305 - 2781	ND
Dimethoate	42 - 2753	ND
E-Fenpyroximate	289 - 2723	ND
Etofenprox	39 - 2673	ND
Etoxazole	294 - 2706	ND
Fenoxycarb	38 - 2765	ND
Fipronil	77 - 2752	ND
Flonicamid	40 - 2834	ND
Fludioxonil	281 - 2808	ND
Hexythiazox	38 - 2721	ND
Imazalil	252 - 2790	ND
Imidacloprid	42 - 2788	ND
Kresoxim-methyl	42 - 2769	ND

	Dynamic Range (ppb)	**Result** (ppb)
Malathion	262 - 2743	ND
Metalaxyl	41 - 2719	ND
Methiocarb	41 - 2788	ND
Methomyl	40 - 2776	ND
MGK 264 1	176 - 1672	ND
MGK 264 2	114 - 1081	ND
Myclobutanil	142 - 2789	ND
Naled	46 - 2768	ND
Oxamyl	42 - 2771	ND
Paclobutrazol	44 - 2699	ND
Permethrin	297 - 2665	ND
Phosmet	39 - 2761	ND
Prophos	321 - 2786	ND
Propoxur	41 - 2711	ND
Pyridaben	285 - 2699	ND
Spinosad A	31 - 2104	ND
Spinosad D	63 - 661	ND
Spiromesifen	276 - 2696	ND
Spirotetramat	268 - 2774	ND
Spiroxamine 1	19 - 1220	ND
Spiroxamine 2	21 - 1563	ND
Tebuconazole	286 - 2743	ND
Thiacloprid	41 - 2736	ND
Thiamethoxam	42 - 2772	ND
Trifloxystrobin	44 - 2709	ND

Final Approval

Karen Winternheimer
27Sep2023
01:00:00 PM MDT
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Sam Smith
27Sep2023
01:03:00 PM MDT
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Definitions
ND = None Detected (defined by dynamic range of the method)
Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range
ppb = Parts Per Billion

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