




STRAIGHT HEMP

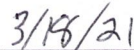
CERTIFICATE OF ANALYSIS

PRODUCT: Full Spectrum Hemp Oil
BATCH/LOT: ND210311
INGREDIENTS: Organic Hemp Seed Oil, Full Spectrum Hemp Extracts
ADDITIVES: none
EXCIPIENTS: none

PRODUCTION DATE: 03/2021
EXPIRATION DATE: 03/2023

TEST	METHOD	SPECIFICATION	RESULTS
Strength & Composition			
Identity	Organoleptic	Conforming	PASS
Identity	UPLC/UV	Chemical Fingerprint	PASS
Total Cannabidiol (CBD) ⁱ	UPLC/UV	36.7 – 42.3 mg/g	39.5 mg/g ⁱⁱ
Total Tetrahydrocannabinol (THC) ⁱⁱⁱ	UPLC/UV	NMT 0.30%	0.08%
Terpene assay ^{iv}	HS-GC/MS	n/e	8,760 ppm
Microbiological ^v			
Total Plate Count	USP 42	NMT 1,000 cfu/ml	PASS
Total Yeast & Mold	USP 42	NMT 100 cfu/ml	PASS
<i>E. coli</i>	USP 42	Absent	PASS
<i>Salmonella</i>	USP 42	Absent	PASS
Heavy Metals ^{vi}			
Arsenic (As)	ICP/MS	NMT 1.0 ppm	PASS
Cadmium (Cd)	ICP/MS	NMT 0.5 ppm	PASS
Lead (Pb)	ICP/MS	NMT 0.5 ppm	PASS
Mercury (Hg)	ICP/MS	NMT 0.1 ppm	PASS
Residual Solvents			
Multi-residue panel	GC-HS-MSD	Below MRL ^{vii}	PASS
Pesticides			
Multi-residue panel	UPLC-MS/MS	Below MRL ^{viii}	PASS


David Cole
Director of Quality


Date

ⁱ Total CBD = CBD + (0.877*CBDA) to account for loss of acid group during decarboxylation

ⁱⁱ Corresponds to **36.5mg/ml**

ⁱⁱⁱ Total THC = THC + (0.877*THCa) to account for loss of acid group during decarboxylation

^{iv} Sum of terpene assay (n=22)

^v Microbiological limits based on USP, WHO, and/or NSF/ANSI

^{vi} Limits for As and Pb set below CA Prop 65 *no significant risk level*; Cd and Hg set below USP permitted daily exposure for 110lb body weight. Complies with 1 CCR 212-3

^{vii} 13 solvent panel: Propane, Butanes, Methanol, Pentane, Ethanol, Acetone, Isopropyl Alcohol, Hexane, Ethyl Acetate, Benzene, Heptanes, Toluene, Xylenes

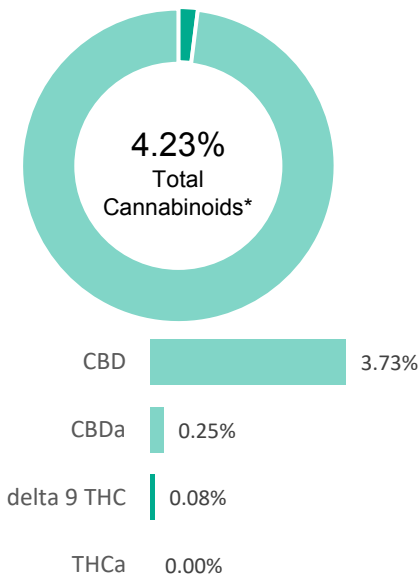
^{viii} 50 residue panel

NMT = Not More Than

MRL = Method Reporting Limit
n/e = not established

Full Spectrum Hemp Oil

Batch ID:	ND210311	Test ID:	T000129545
Type:	Concentrate	Submitted:	03/12/2021 @ 07:33 AM
Test:	Potency	Started:	3/12/2021
Method:	TM14	Reported:	3/12/2021

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.01	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.01	0.08	0.8
Cannabidiolic acid (CBDA)	0.02	0.25	2.5
Cannabidiol (CBD)	0.02	3.73	37.3
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.02	ND	ND
Cannabinolic Acid (CBNA)	0.01	ND	ND
Cannabinol (CBN)	0.00	ND	ND
Cannabigerolic acid (CBGA)	0.01	ND	ND
Cannabigerol (CBG)	0.00	0.03	0.3
Tetrahydrocannabivarinic Acid (THCVA)	0.01	ND	ND
Tetrahydrocannabivarin (THCV)	0.00	ND	ND
Cannabidivarinic Acid (CBDVA)	0.01	ND	ND
Cannabidivarin (CBDV)	0.00	0.02	0.2
Cannabichromenic Acid (CBCA)	0.01	ND	ND
Cannabichromene (CBC)	0.01	0.12	1.2
Total Cannabinoids		4.23	42.3
Total Potential THC**		0.08	0.8
Total Potential CBD**		3.95	39.5

% = % (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.
 Total THC = THC + (THCa *(0.877)) and
 Total CBD = CBD + (CBDa *(0.877))
 ND = None Detected (Defined by Dynamic Range of the method)

NOTES:
 N/A

FINAL APPROVAL

 Mara Miller 12-Mar-2021 2:52 PM	 Ben Minton 12-Mar-2021 3:31 PM
PREPARED BY / DATE	APPROVED BY / DATE

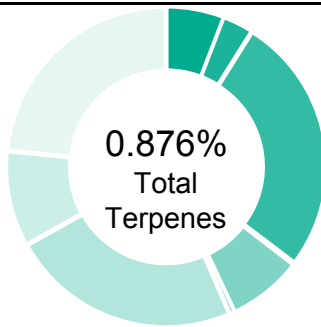
Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. 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 4329.02



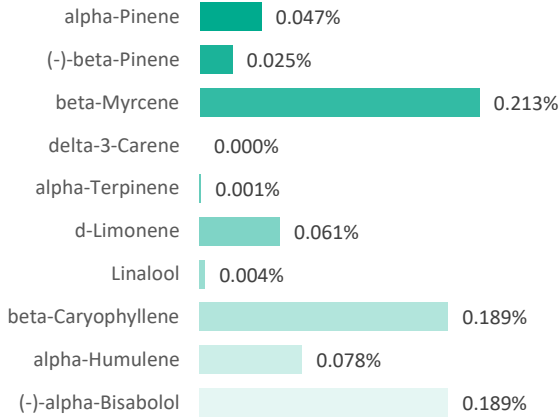
Certificate #4329.02

Full Spectrum Hemp Oil



Batch ID:	ND210311	Test ID:	T000129546
Type:	Concentrate	Submitted:	03/12/2021 @ 07:33 AM
Test:	Terpenes	Started:	3/12/2021
Method:	TM22	Reported:	3/16/2021

TERPENE PROFILE


Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.189	1.89
Camphene	0.000	0
delta-3-Carene	0.000	0
beta-Caryophyllene	0.189	1.89
(-)-Caryophyllene Oxide	0.035	0.35
p-Cymene	0.000	0
Eucalyptol	0.010	0.1
Geraniol	0.000	0
alpha-Humulene	0.078	0.78
(-)-Isopulegol	0.000	0
d-Limonene	0.061	0.61
Linalool	0.004	0.04
beta-Myrcene	0.213	2.13
cis-Nerolidol	0.000	0
trans-Nerolidol	0.013	0.13
Ocimene	0.000	0
beta-Ocimene	0.002	0.02
alpha-Pinene	0.047	0.47
(-)-beta-Pinene	0.025	0.25
alpha-Terpinene	0.001	0.01
gamma-Terpinene	0.001	0.01
Terpinolene	0.008	0.08
	0.876%	8.76

PREDOMINANT TERPENES

 NOTES:
 0

FINAL APPROVAL

 Daniel Weidensaul 16-Mar-2021 12:38 PM	 Greg Zimpfer 16-Mar-2021 3:14 PM
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Certificate #4329.02

Full Spectrum Hemp Oil



Batch ID:	ND210311	Test ID:	T000129548
Type:	Unit	Submitted:	03/12/2021 @ 07:33 AM
Test:	Metals	Started:	3/12/2021
Method:	TM19	Reported:	3/15/2021

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.072 - 7.23	ND
Cadmium	0.070 - 7.05	ND
Mercury	0.072 - 7.20	ND
Lead	0.077 - 7.75	ND

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

FINAL APPROVAL


Sam Smith
15-Mar-2021
9:40 AM
Mike Branvold
15-Mar-2021
12:09 PM

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APPROVED BY / DATE

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Full Spectrum Hemp Oil

Batch ID:	ND210311	Test ID:	T000129549
Type:	Concentrate	Submitted:	03/12/2021 @ 07:33 AM
Test:	Residual Solvents	Started:	3/15/2021
Method:	TM04	Reported:	3/15/2021


RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	113 - 2263	*ND
Butanes (Isobutane, n-Butane)	221 - 4429	*ND
Methanol	62 - 1248	*ND
Pentane	110 - 2193	*ND
Ethanol	113 - 2267	*ND
Acetone	108 - 2156	*ND
Isopropyl Alcohol	113 - 2260	*ND
Hexane	7 - 130	*ND
Ethyl Acetate	110 - 2193	*ND
Benzene	0.2 - 4.4	*ND
Heptanes	109 - 2185	*ND
Toluene	20 - 394	*ND
Xylenes (m,p,o-Xylenes)	144 - 2875	*ND

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

NOTES:
N/A

FINAL APPROVAL


PREPARED BY / DATE

Sam Smith
15-Mar-2021
1:00 PM


APPROVED BY / DATE

Ben Minton
15-Mar-2021
1:45 PM

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Certificate #4329.02

Full Spectrum Hemp Oil

Batch ID:	ND210311	Test ID:	T000129547
Type:	Concentrate	Submitted:	03/12/2021 @ 07:33 AM
Test:	Pesticides	Started:	3/12/2021
Method:	TM17	Reported:	3/15/2021

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)	Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	49 - 2680	ND*	Malathion	314 - 2680	ND*
Acetamiprid	49 - 2680	ND*	Metalaxyl	39 - 2680	ND*
Abamectin	>347	ND*	Methiocarb	45 - 2680	ND*
Azoxystrobin	69 - 2680	ND*	Methomyl	51 - 2680	ND*
Bifenazate	47 - 2680	ND*	MGK 264 1	205 - 2680	ND*
Boscalid	55 - 2680	ND*	MGK 264 2	155 - 2680	ND*
Carbaryl	42 - 2680	ND*	Myclobutanil	41 - 2680	ND*
Carbofuran	44 - 2680	ND*	Naled	52 - 2680	ND*
Chlorantraniliprole	63 - 2680	ND*	Oxamyl	50 - 2680	ND*
Chlorpyrifos	73 - 2680	ND*	Paclobutrazol	50 - 2680	ND*
Clofentezine	316 - 2680	ND*	Permethrin	315 - 2680	ND*
Diazinon	368 - 2680	ND*	Phosmet	39 - 2680	ND*
Dichlorvos	>310	ND*	Prophos	302 - 2680	ND*
Dimethoate	44 - 2680	ND*	Propoxur	47 - 2680	ND*
E-Fenpyroximate	349 - 2680	ND*	Pyridaben	317 - 2680	ND*
Etofenprox	49 - 2680	ND*	Spinosad A	33 - 2680	ND*
Etoxazole	317 - 2680	ND*	Spinosad D	94 - 2680	ND*
Fenoxycarb	>48	ND*	Spiromesifen	>248	ND*
Fipronil	82 - 2680	ND*	Spirotetramat	>373	ND*
Fonicamid	49 - 2680	ND*	Spiroxamine 1	18 - 2680	ND*
Fludioxonil	>298	ND*	Spiroxamine 2	23 - 2680	ND*
Hexythiazox	55 - 2680	ND*	Tebuconazole	311 - 2680	ND*
Imazalil	312 - 2680	ND*	Thiacloprid	47 - 2680	ND*
Imidacloprid	45 - 2680	ND*	Thiamethoxam	45 - 2680	ND*
Kresoxim-methyl	93 - 2680	ND*	Trifloxystrobin	44 - 2680	ND*

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

N/A

FINAL APPROVAL

 **Sam Smith**
 15-Mar-2021
 10:23 AM

 **Mike Branvold**
 15-Mar-2021
 12:16 PM

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APPROVED BY / DATE

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Certificate of Analysis

Straight Hemp
 5135 W. 58th Ave, Ste 5
 Arvada, CO 80002
 Phone: 970-214-7814

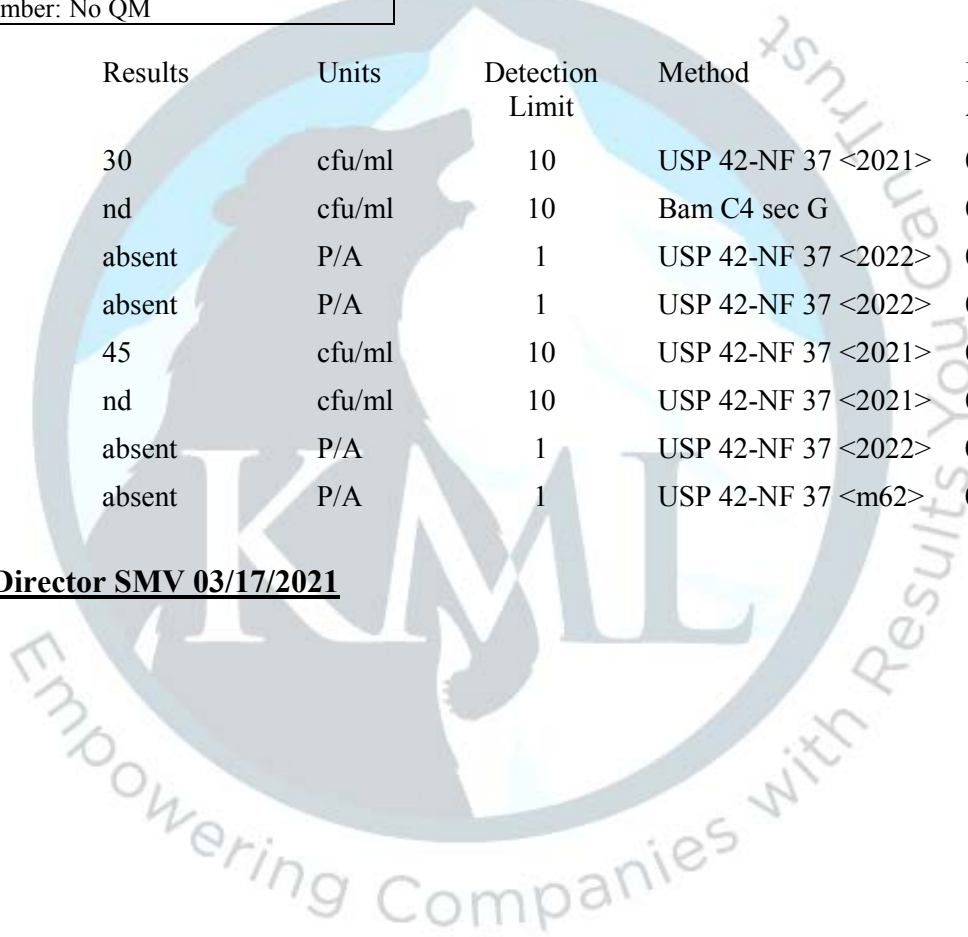
Invoice Number: 21.0375
 PO Number:
 Received Date: 03/12/2021
 Number of Samples: 01
 Project Name: Routine Testing

Microbiology Report:

Lab #: 21-2728	Sample Lot: ND210311	Sample Date: 03/11/2021
Sample Name: Full Spectrum Hemp Oil	Additional ID:	Plated Date: 03/12/2021
Qualifying Material Number: No QM		

Test Performed	Results	Units	Detection Limit	Method	Date Analyzed
Aerobic Plate Count	30	cfu/ml	10	USP 42-NF 37 <2021>	03/15/2021
Coliforms	nd	cfu/ml	10	Bam C4 sec G	03/13/2021
<i>E. coli</i>	absent	P/A	1	USP 42-NF 37 <2022>	03/15/2021
<i>Staph aureus</i>	absent	P/A	1	USP 42-NF 37 <2022>	03/15/2021
Yeast	45	cfu/ml	10	USP 42-NF 37 <2021>	03/17/2021
Mold	nd	cfu/ml	10	USP 42-NF 37 <2021>	03/17/2021
Salmonella	absent	P/A	1	USP 42-NF 37 <2022>	03/16/2021
<i>Pseudo. aeruginosa</i>	absent	P/A	1	USP 42-NF 37 <m62>	03/15/2021

Approved By: QA Director SMV 03/17/2021



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Certificate of Analysis

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 Arvada, CO 80002
 Phone: 970-214-7814

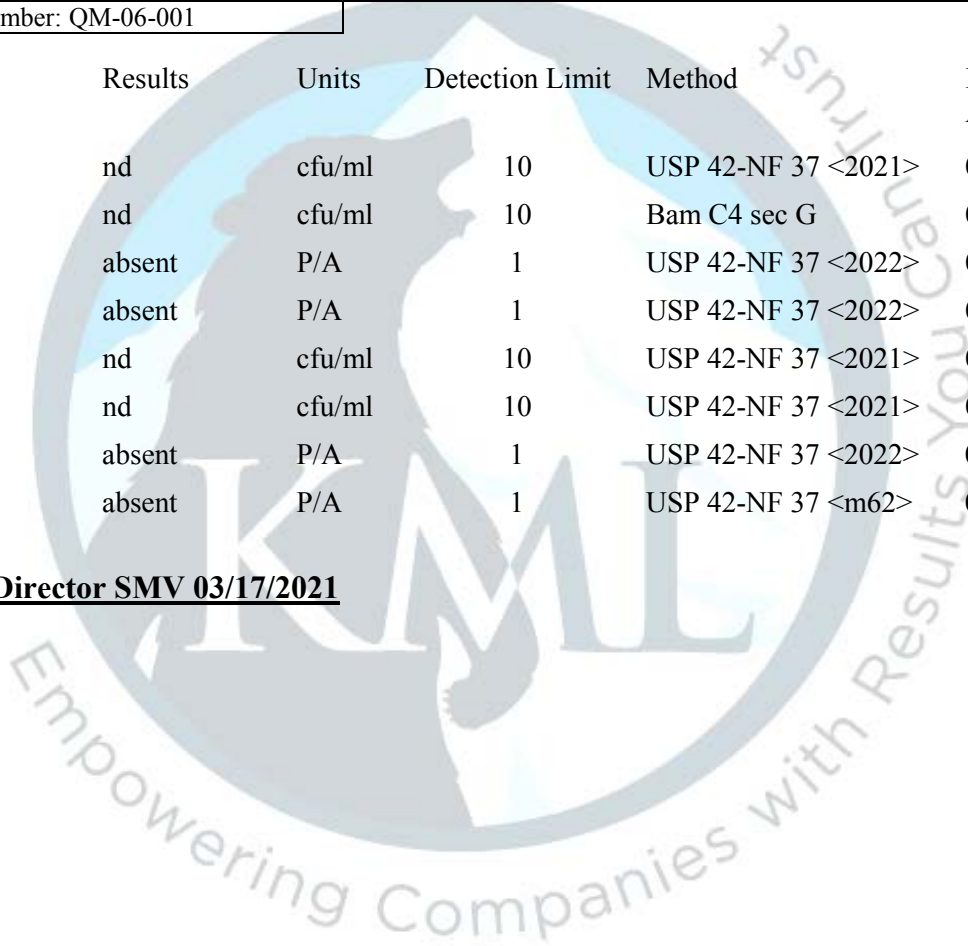
Invoice Number: 21.0375
 PO Number:
 Received Date: 03/12/2021
 Number of Samples: 01
 Project Name: Routine Testing

Microbiology Report:

Lab #: Control 03122021	Additional ID: Negative Control Purposes	Plated Date: 03/12/2021
Sample Name: Control 03122021		
Qualifying Material Number: QM-06-001		

Test Performed	Results	Units	Detection Limit	Method	Date Analyzed
Aerobic Plate Count	nd	cfu/ml	10	USP 42-NF 37 <2021>	03/15/2021
Coliforms	nd	cfu/ml	10	Bam C4 sec G	03/13/2021
<i>E. coli</i>	absent	P/A	1	USP 42-NF 37 <2022>	03/15/2021
<i>Staph aureus</i>	absent	P/A	1	USP 42-NF 37 <2022>	03/15/2021
Yeast	nd	cfu/ml	10	USP 42-NF 37 <2021>	03/17/2021
Mold	nd	cfu/ml	10	USP 42-NF 37 <2021>	03/17/2021
Salmonella	absent	P/A	1	USP 42-NF 37 <2022>	03/16/2021
<i>Pseudo. aeruginosa</i>	absent	P/A	1	USP 42-NF 37 <m62>	03/15/2021

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