



STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT: Straight Hemp Vape Oil
BATCH/LOT: VA018

PRODUCTION DATE: 4/2021
BEST BY/EXP DATE: 4/2023

INGREDIENTS: Full Spectrum Hemp Extracts, Terpene Blend (Hemp-derived)
ADDITIVES: none
EXCIPIENTS: none

TEST	METHOD	SPECIFICATION	RESULTS
Strength & Composition			
Total Cannabidiol (CBD) ⁱ	UPLC/UV	48 – 58%	48.43%
Total minor cannabinoids	UPLC/UV	n/e	11.34%
Total Tetrahydrocannabinol (THC) ⁱⁱ	UPLC/UV	NMT 0.3%	0.23%
Total Cannabinoids	UPLC/UV	n/e	60.00%
Terpene assay ⁱⁱⁱ	HS-GC/MS	n/e	12.92%
Microbiological^{iv}			
<i>Aspergillus</i>	Micro Array	Absent	PASS
<i>STEC E. coli</i>	Micro Array	Absent	PASS
<i>Salmonella</i>	Micro Array	Absent	PASS
<i>Listeria</i>	qPCR	Absent	PASS
Mycotoxins			
Alfatoxin B1	LCMS	NMT 20 ppb	<6 ppb
Alfatoxin B2	LCMS	NMT 20 ppb	<6 ppb
Alfatoxin G1	LCMS	NMT 20 ppb	<6 ppb
Alfatoxin G2	LCMS	NMT 20 ppb	<6 ppb
Ochratoxin	LCMS	NMT 20 ppb	<12 ppb

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

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

ⁱⁱⁱ Sum of terpene assay (n=22)

^{iv} Microbiological limits based on USP, WHO, and/or NSF/ANSI.

NMT = Not More Than
MRL = Method Reporting Limit
n/e = not established



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ADDITIVES: none
EXCIPIENTS: none

TEST	METHOD	SPECIFICATION	RESULTS
Heavy Metals ^v			
Arsenic (As)	ICP/MS	NMT 0.2 ppm	PASS
Cadmium (Cd)	ICP/MS	NMT 0.2 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 CCR Limits ^{vi}	PASS
Pesticides			
Multi-residue panel	UPLC-MS/MS	Below MRL ^{vii}	PASS
Other compounds			
Vitamin E Acetate	LC-MS	Absent	PASS
Diacetyl (2,3-butanedione)	GCMS	Absent	PASS



David Cole
Director of Quality

5/14/21

Date

^v 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

^{vi} 21 solvent panel includes: Propane, Butanes, Methanol, Pentane, Ethanol, Acetone, Isopropyl Alcohol, Hexane, Benzene, Heptanes, Toluene, Xylenes.

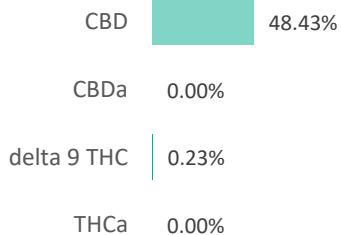
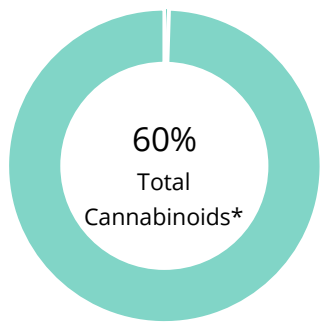
Individual limits: 1 CCR 212-3

^{vii} 67 residue panel

Vape Oil

Batch ID:	VA018	Test ID:	T000137216
Type:	Concentrate	Submitted:	04/27/2021 @ 09:27 AM
Test:	Potency	Started:	4/28/2021
Method:	TM14	Reported:	4/29/2021

CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.06	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.07	0.23	2.3
Cannabidiolic acid (CBDA)	0.07	ND	ND
Cannabidiol (CBD)	0.07	48.43	484.3
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.08	ND	ND
Cannabinolic Acid (CBNA)	0.05	ND	ND
Cannabinol (CBN)	0.02	0.37	3.7
Cannabigerolic acid (CBGA)	0.07	ND	ND
Cannabigerol (CBG)	0.02	7.97	79.7
Tetrahydrocannabivarinic Acid (THCVA)	0.06	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.03	ND	ND
Cannabidivarin (CBDV)	0.02	2.87	28.7
Cannabichromenic Acid (CBCA)	0.03	ND	ND
Cannabichromene (CBC)	0.03	0.13	1.3
Total Cannabinoids		60.00	600.0
Total Potential THC**		0.23	2.3
Total Potential CBD**		48.43	484.3

NOTES:

N/A

% = % (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

 Taylor Brevik 29-Apr-2021 2:49 PM	 Daniel Weidensaul 29-Apr-2021 2:50 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

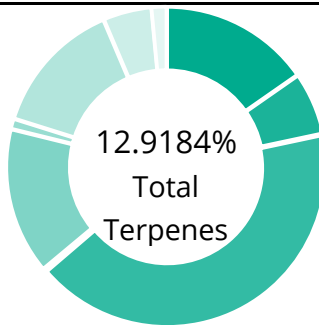


Certificate #4329.02

Vape Oil

Batch ID:	VA018	Test ID:	T000137217
Type:	Concentrate	Submitted:	04/27/2021 @ 09:27 AM
Test:	Terpenes	Started:	4/29/2021
Method:	TM22	Reported:	4/30/2021

TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.1864	1.864
Camphene	0.0538	0.538
delta-3-Carene	0.0134	0.134
beta-Caryophyllene	1.7099	17.099
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.2386	2.386
Geraniol	0.0000	0.000
alpha-Humulene	0.6094	6.094
(-)-Isopulegol	0.0000	0.000
d-Limonene	1.8529	18.529
Linalool	0.1246	1.246
beta-Myrcene	5.2274	52.274
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0000	0.000
Ocimene	0.0073	0.073
beta-Ocimene	0.0000	0.000
alpha-Pinene	1.9031	19.031
(-)-beta-Pinene	0.7895	7.895
alpha-Terpinene	0.0131	0.131
gamma-Terpinene	0.0163	0.163
Terpinolene	0.1727	1.727
	12.9184	129.184

PREDOMINANT TERPENES

alpha-Pinene	1.9031
(-)-beta-Pinene	0.7895
beta-Myrcene	5.2274
delta-3-Carene	0.0134
alpha-Terpinene	0.0131
d-Limonene	1.8529
Linalool	0.1246
beta-Caryophyllene	1.7099
alpha-Humulene	0.6094
(-)-alpha-Bisabolol	0.1864

NOTES:

N/A

FINAL APPROVAL

 Rvan Weems 30-Apr-2021 11:43 AM	 Mara Miller 30-Apr-2021 11:45 AM
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PREPARED BY / DATE

APPROVED BY / DATE

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Compliance Test

STRAIGHT HEMP
5135 W 58TH AVE, UNIT 5
ARVADA, CO 80002

Batch # VA018
Batch Date: 2021-04-23
Extracted From: Hemp

Sampling Method: MSP 7.3.1 Test Reg
State: Florida

Order # STR210423-020080
Order Date: 2021-04-23
Sample # AABG467

Sampling Date: 2021-04-27
Lab Batch Date: 2021-04-27
Completion Date: 2021-05-06

Initial Gross Weight: 18.611 g

H Heavy Metals Passed (ICP-MS)

Specimen Weight: 249.500 mg

Dilution Factor: 2.000

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Arsenic (As)	100	1500	<LOQ	Cadmium (Cd)	100	500	<LOQ
Lead (Pb)	100	500	<LOQ	Mercury (Hg)	100	3000	<LOQ

2,3-butanedione(Diacetyl) Passed (GCMS)

Specimen Weight: 9.300 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Result (ppm)
2,3-Butanedione	0.024	<LOQ

Mycotoxins Passed (LCMS)

Specimen Weight: 165.950 mg

Dilution Factor: 9.039

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Aflatoxin B1	6	20	<LOQ	Aflatoxin B2	6	20	<LOQ
Aflatoxin G1	6	20	<LOQ	Aflatoxin G2	6	20	<LOQ
Ochratoxin A	12	20	<LOQ				

Xueli Gao
Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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FL License # CMTL-0003
CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

STRAIGHT HEMP
5135 W 58TH AVE, UNIT 5
ARVADA, CO 80002

Batch # VA018
Batch Date: 2021-04-23
Extracted From: Hemp

Sampling Method: MSP 7.3.1 Test Reg
State: Florida

Order # STR210423-020080
Order Date: 2021-04-23
Sample # AABG467

Sampling Date: 2021-04-27
Lab Batch Date: 2021-04-27
Completion Date: 2021-05-06

Initial Gross Weight: 18.611 g



Pesticides FL V4

Specimen Weight: 165.950 mg

Passed
(LCMS/GCMS)

Dilution Factor: 9.039

Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)	Analyte	LOQ (ppb)	Action Level (ppb)	Result (ppb)
Abamectin	28.23	300	<LOQ	Acephate	30	3000	<LOQ
Acequinocyl	48	2000	<LOQ	Acetamiprid	30	3000	<LOQ
Aldicarb	30	100	<LOQ	Azoxystrobin	10	3000	<LOQ
Bifenazate	30	3000	<LOQ	Bifenthrin	30	500	<LOQ
Boscalid	10	3000	<LOQ	Captan	30	3000	<LOQ
Carbaryl	10	500	<LOQ	Carbofuran	10	100	<LOQ
Chlorantraniliprole	10	3000	<LOQ	Chlordane	10	100	<LOQ
Chlorfenapyr	30	100	<LOQ	Chlormequat Chloride	10	3000	<LOQ
Chlorpyrifos	30	100	<LOQ	Clofentazine	30	500	<LOQ
Coumaphos	48	100	<LOQ	Cyfluthrin	30	1000	<LOQ
Cypermethrin	30	1000	<LOQ	Daminozide	30	100	<LOQ
Diazinon	30	200	<LOQ	Dichlorvos	30	100	<LOQ
Dimethoate	30	100	<LOQ	Dimethomorph	48	3000	<LOQ
Ethoprophos	30	100	<LOQ	Etofenprox	30	100	<LOQ
Etoxazole	30	1500	<LOQ	Fenhexamid	10	3000	<LOQ
Fenoxycarb	30	100	<LOQ	Fenpyroximate	30	2000	<LOQ
Fipronil	30	100	<LOQ	Flonicamid	30	2000	<LOQ
Fludioxonil	48	3000	<LOQ	Hexythiazox	30	2000	<LOQ
Imazalil	30	100	<LOQ	Imidacloprid	30	3000	<LOQ
Kresoxim Methyl	30	1000	<LOQ	Malathion	30	2000	<LOQ
Metaxyl	10	3000	<LOQ	Methiocarb	30	100	<LOQ
Methomyl	30	100	<LOQ	methyl-Parathion	10	100	<LOQ
Mevinphos	10	100	<LOQ	Myclobutanil	30	3000	<LOQ
Naled	30	500	<LOQ	Oxamyl	30	500	<LOQ
Paclotrazol	30	100	<LOQ	Pentachloronitrobenzene	10	200	<LOQ
Permethrin	30	1000	<LOQ	Phosmet	30	200	<LOQ
Piperonylbutoxide	30	3000	<LOQ	Prallethrin	30	400	<LOQ
Propiconazole	30	1000	<LOQ	Propoxur	30	100	<LOQ
Pyrethrins	30	1000	<LOQ	Pyridaben	30	3000	<LOQ
Spinetoram	10	3000	<LOQ	Spinosad	30	3000	<LOQ
Spiromesifen	30	3000	<LOQ	Spirotetramat	30	3000	<LOQ
Spiroxamine	30	100	<LOQ	Tebuconazole	30	1000	<LOQ
Thiacloprid	30	100	<LOQ	Thiamethoxam	30	1000	<LOQ
Trifloxystrobin	30	3000	<LOQ				

Xueli Gao
Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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Compliance Test

STRAIGHT HEMP
5135 W 58TH AVE, UNIT 5
ARVADA, CO 80002

Batch # VA018
Batch Date: 2021-04-23
Extracted From: Hemp

Sampling Method: MSP 7.3.1 Test Reg
State: Florida

Order # STR210423-020080
Order Date: 2021-04-23
Sample # AABG467

Sampling Date: 2021-04-27
Lab Batch Date: 2021-04-27
Completion Date: 2021-05-06

Initial Gross Weight: 18.611 g

Residual Solvents - FL (CBD) Passed (GCMS)

Specimen Weight: 9.300 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethane	0.16	8	<LOQ	1,2-Dichloroethane	0.04	5	<LOQ
Acetone	2.08	5000	<LOQ	Acetonitrile	1.17	410	<LOQ
Benzene	0.02	2	<LOQ	Butanes	2.5	2000	<LOQ
Chloroform	0.04	60	<LOQ	Ethanol	2.78	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Ethyl Ether	1.39	5000	<LOQ
Ethylene Oxide	0.1	5	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Methylene chloride	2.43	600	<LOQ
Pentane	2.08	5000	<LOQ	Propane	5.83	2100	<LOQ
Toluene	2.92	890	<LOQ	Total Xylenes	2.92	2170	<LOQ
Trichloroethylene	0.49	80	<LOQ				

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Ph.D., DABT

Aixia Sun
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D.H.Sc., M.Sc., B.Sc., MT (AAB)



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Sample # AABG467

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Lab Batch Date: 2021-04-27
Completion Date: 2021-05-06

Initial Gross Weight: 18.611 g

Pathogenic Microbiology SAE (MicroArray) **Passed**
(Micro Array)

Specimen Weight: 1000.120 mg

Dilution Factor: 1.000

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
Aspergillus flavus	Absence in 1g	Aspergillus fumigatus	Absence in 1g
Aspergillus niger	Absence in 1g	Aspergillus terreus	Absence in 1g
Salmonella	Absence in 1g	STEC E. Coli	Absence in 1g

Listeria Monocytogenes **Passed**
(qPCR)

Specimen Weight: 1026.740 mg

Dilution Factor: 1.000

Analyte	Action Level (cfu/g)	Result
Listeria Monocytogenes	1	Absence in 1g

Xueli Gao
Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
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Sampling Date: 2021-04-27
Lab Batch Date: 2021-04-27
Completion Date: 2021-05-06

Initial Gross Weight: 18.611 g

E **Vitamin E (Tocopheryl Acetate)**

Passed
(LC-MS)

Specimen Weight: **N/A**

Analyte	LOQ (ppb)	Result (ppb)
Vitamin E Acetate	10	<LOQ

Xueli Gao
Xueli Gao Lab Toxicologist
Ph.D., DABT

Aixia Sun
Aixia Sun Lab Director/Principal Scientist
D.H.Sc., M.Sc., B.Sc., MT (AAB)



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