

STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT: Straight Hemp Vape Oil PRODUCTION DATE: 9/2021
BATCH/LOT: VA019(R) BEST BY/EXP DATE: 9/2023

INGREDIENTS: Full Spectrum Hemp Extracts, Broad 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%	48.78%
Total minor cannabinoids	UPLC/UV	n/e	8.20%
<u>Total Tetrahydrocannabinol (THC)ⁱⁱ</u>	<u>UPLC/UV</u>	<u>NMT 0.3%</u>	<u>0.21%</u>
Total Cannabinoids	UPLC/UV	n/e	57.19%
Terpene assay ⁱⁱⁱ	HS-GC/MS	n/e	21.27%
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

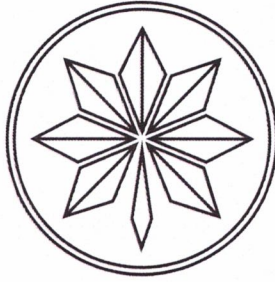
ⁱ Total CBD = CBD + (0.877*CBDA) to account for loss of acid group during decarboxylation

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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BATCH/LOT: VA019(R)
INGREDIENTS: Full Spectrum Hemp Extracts, Broad Spectrum Hemp Extracts, Terpene Blend (Hemp-derived)
ADDITIVES: none
EXCIPIENTS: none

PRODUCTION DATE: 9/2021
BEST BY/EXP DATE: 9/2023

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

10/19/21

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 6 CCR 1010-21
^{vi} 21 solvent panel includes: Propane, Butanes, Methanol, Pentane, Ethanol, Acetone, Isopropyl Alcohol, Hexane, Benzene, Heptanes, Toluene, Xylenes.
Individual limits: 1 CCR 212-3w
^{vii} 67 residue panel

Prepared for:

Vape Oil

Straight Hemp

Batch ID or Lot Number: VA019 (R)	Test: Potency	Reported: 10/14/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
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Matrix: Concentrate	Test ID: T000168617	Started: 10/12/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)	Received: 10/08/2021 @ 01:23 PM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.008	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	0.214	2.14	
Cannabidiolic acid (CBDA)	0.079	0.241	ND	ND	
Cannabidiol (CBD)	0.077	0.235	48.777	487.77	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.081	0.252	ND	ND	
Cannabinolic Acid (CBNA)	0.047	0.144	ND	ND	
Cannabinol (CBN)	0.021	0.066	0.718	7.18	
Cannabigerolic acid (CBGA)	0.068	0.212	ND	ND	
Cannabigerol (CBG)	0.016	0.051	5.414	54.14	
Tetrahydrocannabivarinic Acid (THCVA)	0.058	0.179	ND	ND	
Tetrahydrocannabivarin (THCV)	0.015	0.046	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.033	0.100	ND	ND	
Cannabidivarin (CBDV)	0.018	0.056	1.993	19.93	
Cannabichromenic Acid (CBCA)	0.026	0.082	ND	ND	
Cannabichromene (CBC)	0.029	0.089	0.08*	0.8*	
Total Cannabinoids			57.196	571.96	
Total Potential THC**			0.214	2.14	
Total Potential CBD**			48.777	487.77	


 Sam Smith
 14-Oct-2021
 06:43 PM


 Ryan Weems
 14-Oct-21
 6:46 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

** 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))

Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

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.



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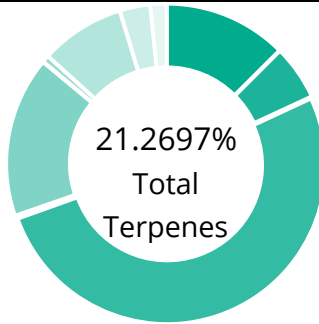


Certificate #4329.02

Vape Oil

Batch ID:	VA019 (R)	Test ID:	T000168618
Type:	Concentrate	Submitted:	10/08/2021 @ 01:23 PM
Test:	Terpenes	Started:	10/11/2021
Method:	TM22 (GC-MS)	Reported:	10/12/2021

TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.3325	3.325
Camphene	0.0857	0.857
delta-3-Carene	0.0127	0.127
beta-Caryophyllene	1.7603	17.603
(-)-Caryophyllene Oxide	0.1142	1.142
p-Cymene	0.0000	0.000
Eucalyptol	0.1248	1.248
Geraniol	0.0000	0.000
alpha-Humulene	0.6298	6.298
(-)-Isopulegol	0.0000	0.000
d-Limonene	3.3536	33.536
Linalool	0.1396	1.396
beta-Myrcene	10.5442	105.442
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0248	0.248
Ocimene	0.0123	0.123
beta-Ocimene	0.0000	0.000
alpha-Pinene	2.5662	25.662
(-)-beta-Pinene	1.1437	11.437
alpha-Terpinene	0.0204	0.204
gamma-Terpinene	0.0318	0.318
Terpinolene	0.3731	3.731
	21.2697	212.697


PREDOMINANT TERPENES

alpha-Pinene	2.5662
(-)-beta-Pinene	1.1437
beta-Myrcene	10.5442
delta-3-Carene	0.0127
alpha-Terpinene	0.0204
d-Limonene	3.3536
Linalool	0.1396
beta-Caryophyllene	1.7603
alpha-Humulene	0.6298
(-)-alpha-Bisabolol	0.3325


NOTES:

N/A

FINAL APPROVAL



Rvan Weems
12-Oct-2021
4:24 PM



Daniel Weidensaul
12-Oct-2021
4:26 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02



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Certificate of Analysis

Compliance Test

STRAIGHT HEMP 5135 W 58TH AVE, UNIT 5 ARVADA, CO 80002	Batch # VA019 Batch Date: 2021-09-08 Extracted From: Hemp	Sampling Method: MSP 7.3.1 Test Reg State: Florida	Production Facility: Straight Hemp Production Date: 2021-09-08
Order # STR210909-010002 Order Date: 2021-09-09 Sample # AABW569	Sampling Date: 2021-09-10 Lab Batch Date: 2021-09-10 Completion Date: 2021-09-16	Initial Gross Weight: 9.709 g Net Weight: 5.472 g	Number of Units: 1 Net Weight per Unit: 5472.000 mg

H Heavy Metals Passed (ICP-MS)

Specimen Weight: 247.700 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: 8.900 mg

Dilution Factor: 1.000

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

🍄 Mycotoxins Passed (LCMS)

Specimen Weight: 156.500 mg

Dilution Factor: 9.585

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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CLIA No. 10D1094068

Certificate of Analysis

Compliance Test

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

Batch # VA019
Batch Date: 2021-09-08
Extracted From: Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Production Facility: Straight Hemp
Production Date: 2021-09-08

Order # STR210909-010002
Order Date: 2021-09-09
Sample # AABW569

Sampling Date: 2021-09-10
Lab Batch Date: 2021-09-10
Completion Date: 2021-09-16

Initial Gross Weight: 9.709 g
Net Weight: 5.472 g

Number of Units: 1
Net Weight per Unit: 5472.000 mg

Pesticides FL V4 **Passed**
(LCMS/GCMS)
Specimen Weight: 156.500 mg

Dilution Factor: 9.585

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	Clofentezine	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				

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Xueli Gao Lab Toxicologist
Ph.D., DABT

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Compliance Test

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

Batch # VA019
Batch Date: 2021-09-08
Extracted From: Hemp

Sampling Method: MSP 7.3.1
Test Reg State: Florida

Production Facility: Straight Hemp
Production Date: 2021-09-08

Order # STR210909-010002
Order Date: 2021-09-09
Sample # AABW569

Sampling Date: 2021-09-10
Lab Batch Date: 2021-09-10
Completion Date: 2021-09-16

Initial Gross Weight: 9.709 g
Net Weight: 5.472 g

Number of Units: 1
Net Weight per Unit: 5472.000 mg

Residual Solvents - FL (CBD) Passed (GCMS)

Specimen Weight: 8.900 mg

Dilution Factor: 1.000

Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOQ (ppm)	Action Level (ppm)	Result (ppm)
Acetone	2.08	5000	<LOQ	Benzene	0.02	2	<LOQ
Butanes	2.5	2000	<LOQ	Ethanol	2.78	5000	<LOQ
Ethyl Acetate	1.11	5000	<LOQ	Heptane	1.39	5000	<LOQ
Hexane	1.17	290	<LOQ	Isopropyl alcohol	1.39	500	<LOQ
Methanol	0.69	3000	<LOQ	Pentane	2.08	5000	<LOQ
Propane	5.83	2100	<LOQ	Toluene	2.92	890	<LOQ
Total Xylenes	2.92	2170	<LOQ				

Pathogenic Microbiology SAE (MicroArray) Passed (Micro Array)

Specimen Weight: 1020.760 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

Xueli Gao
Xueli Gao Lab Toxicologist
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5135 W 58TH AVE, UNIT 5 Batch Date: 2021-09-08 Test Reg State: Florida Production Date: 2021-09-08
ARVADA, CO 80002 Extracted From: Hemp

Order # STR210909-010002 Sampling Date: 2021-09-10 Initial Gross Weight: 9.709 g Number of Units: 1
Order Date: 2021-09-09 Lab Batch Date: 2021-09-10 Net Weight: 5.472 g Net Weight per Unit: 5472.000 mg
Sample # AABW569 Completion Date: 2021-09-16

Listeria Monocytogenes Passed (qPCR)

Specimen Weight: 971.300 mg

Dilution Factor: 1.000

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

Vitamin E (Tocopheryl Acetate) Passed (LC-MS)

Specimen Weight: 156.500 mg

Dilution Factor: 9.585

Analyte	Result (ppb)
Vitamin E Acetate	<LOQ

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



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