

STRAIGHT HEMP CERTIFICATE OF ANALYSIS

PRODUCT:

Straight Hemp Vape Oil

BATCH/LOT:

VA016

PRODUCTION DATE:

11/2020

BEST BY/EXP DATE:

11/2022

INGREDIENTS:

Full Spectrum Hemp Extract, Terpene Blend (Hemp-derived)

ADDITIVES:

none

EXCIPIENTS: none

TEST	METHOD	SPECIFICATION	RESULTS	
Strength & Composition	The second secon			
Total Cannabidiol (CBD) ⁱ	UPLC/UV	48 – 58%	48.60%	
Total minor cannabinoids	UPLC/UV	n/e	11.12%	
Total Tetrahydrocannabinol (THC)ii	UPLC/UV	NMT 0.3%	0.25%	
Total Cannabinoids	UPLC/UV	n/e	59.97%	
Terpene assay ⁱⁱⁱ	HS-GC/MS	n/e	16.61%	
Microbiological ^{iv}				
Total Plate Count	USP 42	NMT 1,000 cfu/g	PASS	
Total Coliforms	USP 42	NMT 100 cfu/g	PASS	
Total Yeast & Mold	USP 42	NMT 100 cfu/g	PASS	
E. coli	USP 42	Absent	PASS	
Salmonella	USP 42	Absent	PASS	
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	
X ///				

David Cole

Director of Quality

Date

MRL = Method Reporting Limit

NMT = Not More Than

n/e = not established

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.

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 11 solvent panel: Propane, Butanes, Methanol, Pentane, Ethanol, Acetone, Isopropyl Alcohol, Hexane, Benzene, Heptanes, Toluene, Xylenes. Individual limits: 1 CCR 212-3

vii 50 residue panel



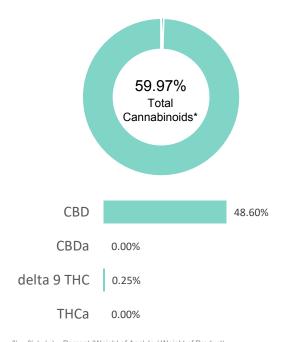
prepared for: Straight Hemp 5135 W 58th Ave, Unit 5 SUITE D Arvada, CO 80002

Vape Oil

Batch ID:	VA016	Test ID:	T000111094
Туре:	Concentrate	Submitted:	11/19/2020 @ 09:04 AM
Test:	Potency	Started:	11/24/2020
Method:	TM14	Reported:	11/24/2020

Compound

CANNABINOID PROFILE



 (/0)	ricourt (70)	ricauit (ilig/g/
0.24	ND	ND
0.12	0.25	2.5
0.04	ND	ND
0.09	48.60	486.0
0.13	ND	ND
0.33	ND	ND
0.14	0.34	3.4
0.21	ND	ND
0.12	7.98	79.8
0.20	ND	ND
0.10	ND	ND
0.04	ND	ND
0.02	2.80	28.0
0.18	ND	ND
0.21	ND	ND
	59.97	599.7
	0.25	2.5
	48.60	486.0
	0.12 0.04 0.09 0.13 0.33 0.14 0.21 0.12 0.20 0.10 0.04 0.02 0.18	0.24 ND 0.12 0.25 0.04 ND 0.09 48.60 0.13 ND 0.33 ND 0.14 0.34 0.21 ND 0.12 7.98 0.20 ND 0.10 ND 0.04 ND 0.02 2.80 0.18 ND 0.21 ND 0.21 ND 0.21 ND 0.21 ND 0.21 ND

LOQ (%)

Result (%)

Result (ma/a)

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.

Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877))

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

FINAL APPROVAL

Samantha Small

Sam Smith 24-Nov-2020 4:17 PM

Ben Minton 24-Nov-2020 8:01 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





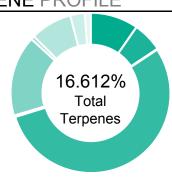
prepared for: Straight Hemp 5135 W 58th Ave, Unit 5

Arvada, CO 80002

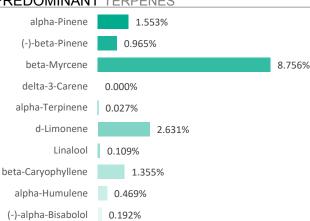
Vape Oil

Batch ID:	VA016	Test ID:	T000111096
Type:	Concentrate	Submitted:	11/19/2020 @ 09:04 AM
Test:	Terpenes	Started:	11/20/2020
Method:	TM10	Reported:	11/23/2020

TERPENE PROFILE



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Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.192	1.92
Camphene	0.063	0.63
delta-3-Carene	0.000	0
beta-Caryophyllene	1.355	13.55
(-)-Caryophyllene Oxide	0.000	0
p-Cymene	0.000	0
Eucalyptol	0.095	0.95
Geraniol	0.000	0
alpha-Humulene	0.469	4.69
(-)-Isopulegol	0.000	0
d-Limonene	2.631	26.31
Linalool	0.109	1.09
beta-Myrcene	8.756	87.56
cis-Nerolidol	0.000	0
trans-Nerolidol	0.000	0
Ocimene	0.010	0.1
beta-Ocimene	0.061	0.61
alpha-Pinene	1.553	15.53
(-)-beta-Pinene	0.965	9.65
alpha-Terpinene	0.027	0.27
gamma-Terpinene	0.026	0.26
Terpinolene	0.300	3
	16.612%	166.12

NOTES:

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Myon News

Ryan Weems 23-Nov-2020 6:10 PM

An 37/

Greg Zimpfer 23-Nov-2020 6:49 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02



prepared for: Straight Hemp 5135 W 58th Ave, Unit 5 Arvada, CO 80002

Vape Oil

Batch ID:	VA016	Test ID:	T000111098
Туре:	Other	Submitted:	11/19/2020 @ 09:04 AM
Test:	Metals	Started:	11/19/2020
Method:	TM19	Reported:	11/20/2020

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.081 - 8.06	ND
Cadmium	0.081 - 8.06	ND
Mercury	0.084 - 8.37	ND
Lead	0.086 - 8.64	ND

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

FINAL APPROVAL

Daniel Westersand

Daniel Weidensaul 20-Nov-2020 11:58 AM

Den Muton

Ben Minton 20-Nov-2020 5:49 PM

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prepared for: STRAIGHT HEMP 5135 W 58TH AVE, UNIT 5 SUITE D ARVADA, CO 80002

Vape Oil

Batch ID:	VA016	Test ID:	T000111095
Туре:	Concentrate	Submitted:	11/19/2020 @ 09:04 AM
Test:	Residual Solvents	Started:	11/24/2020
Method:	TM04	Reported:	11/24/2020

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	102 - 2038	*ND
Butanes (Isobutane, n-Butane)	191 - 3825	*ND
Methanol	60 - 1207	*ND
Pentane	95 - 1910	*ND
Ethanol	98 - 1956	*ND
Acetone	97 - 1935	*ND
Isopropyl Alcohol	101 - 2026	*ND
Hexane	6 - 117	12
Ethyl Acetate	98 - 1952	*ND
Benzene	0.2 - 3.8	*ND
Heptanes	95 - 1892	*ND
Toluene	17 - 347	*ND
Xylenes (m,p,o-Xylenes)	125 - 2491	*ND

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

NOTES: N/A

FINAL APPROVAL

Somantha Smits

Sam Smith 24-Nov-2020 4:22 PM Den Miton

Ben Minton 24-Nov-2020 8:10 PM

PREPARED BY / DATE

APPROVED BY / DATE

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prepared for: Straight Hemp 5135 W 58th Ave, Unit 5 Arvada, CO 80002

Vape Oil

Batch ID:	VA016	Test ID:	T000111097
Туре:	Concentrate	Submitted:	11/19/2020 @ 09:04 AM
Test:	Pesticides	Started:	11/20/2020
Method:	TM17	Reported:	11/23/2020

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	55 - 2478	ND*
Acetamiprid	46 - 2478	ND*
Abamectin	>361	ND*
Azoxystrobin	37 - 2478	ND*
Bifenazate	33 - 2478	ND*
Boscalid	54 - 2478	ND*
Carbaryl	40 - 2478	ND*
Carbofuran	39 - 2478	ND*
Chlorantraniliprole	51 - 2478	ND*
Chlorpyrifos	29 - 2478	ND*
Clofentezine	289 - 2478	ND*
Diazinon	249 - 2478	ND*
Dichlorvos	>320	ND*
Dimethoate	43 - 2478	ND*
E-Fenpyroximate	245 - 2478	ND*
Etofenprox	39 - 2478	ND*
Etoxazole	283 - 2478	ND*
Fenoxycarb	>34	ND*
Fipronil	15 - 2478	ND*
Flonicamid	67 - 2478	ND*
Fludioxonil	>310	ND*
Hexythiazox	46 - 2478	ND*
Imazalil	252 - 2478	ND*
Imidacloprid	51 - 2478	ND*
Kresoxim-methyl	41 - 2478	ND*
* ND - None Detected (Defi	ned by Dynamia Dange of the me	thod)

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	275 - 2478	ND*
Metalaxyl	35 - 2478	ND*
Methiocarb	44 - 2478	ND*
Methomyl	54 - 2478	ND*
MGK 264 1	181 - 2478	ND*
MGK 264 2	137 - 2478	ND*
Myclobutanil	46 - 2478	ND*
Naled	54 - 2478	ND*
Oxamyl	51 - 2478	ND*
Paclobutrazol	37 - 2478	ND*
Permethrin	289 - 2478	ND*
Phosmet	34 - 2478	ND*
Prophos	340 - 2478	ND*
Propoxur	39 - 2478	ND*
Pyridaben	276 - 2478	ND*
Spinosad A	32 - 2478	ND*
Spinosad D	84 - 2478	ND*
Spiromesifen	>246	ND*
Spirotetramat	>267	ND*
Spiroxamine 1	19 - 2478	ND*
Spiroxamine 2	24 - 2478	ND*
Tebuconazole	264 - 2478	ND*
Thiacloprid	43 - 2478	ND*
Thiamethoxam	46 - 2478	ND*
Trifloxystrobin	43 - 2478	ND*

N/A

FINAL APPROVAL

Jefor Win

Tyler Wiese 23-Nov-2020 1:40 PM

Den Minton

Ben Minton 23-Nov-2020 4:38 PM

PREPARED BY / DATE APPROVED BY / DATE

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

KML Laboratories, Inc.



261 Great Northern Road Bonners Ferry, Idaho 83805 Phone: 208-267-0818 Fax: 208-267-0878

Email: Info@kmlmicro.com

Certificate of Analysis

Straight Hemp 5135 W. 58th Ave, Ste 5

Arvada, CO 80002 Phone: 970-214-7814 Invoice Number: 20.1744

PO Number:

Received Date: 11/19/2020 Number of Samples: 01

Project Name: Routine Testing

Microbiology Report:

Lab #: 20-11203	Sample Lot: VA016	Sample Date:
Sample Name: Vape Oil	Additional ID:	Plated Date: 11/19/2020
Qualifying Material Number: No QM		

Test Performed	Results	Units	Detection Limit	Method	Date Analyzed
Aerobic Plate Count	nd	cfu/ml	10	USP 42-NF 37 <2021>	11/22/2020
Coliforms	nd	cfu/ml	10	Bam C4 sec G	11/20/2020
E. coli	absent	P/A	1	USP 42-NF 37 <2022>	11/22/2020
Staph aureus	absent	P/A	1	USP 42-NF 37 <2022>	11/22/2020
Yeast	nd	cfu/ml	10	USP 42-NF 37 <2021>	11/24/2020
Mold	nd	cfu/ml	10	USP 42-NF 37 <2021>	11/24/2020
Salmonella	absent	P/A	1	USP 42-NF 37 <2022>	11/23/2020
Pseudo. aeruginosa	absent	P/A	1	USP 42-NF 37 <m62></m62>	11/22/2020

Approved By: QA Director SMV 11/24/2020

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Companies



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AT-1805

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KML Laboratories, Inc.



261 Great Northern Road Bonners Ferry, Idaho 83805 Phone: 208-267-0818 Fax: 208-267-0878

Email: Info@kmlmicro.com

Certificate of Analysis

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

Invoice Number:

20.1744

PO Number:

Received Date: 11/19/2020

Number of Samples: 01

Project Name: Routine Testing

Microbiology Report:

Lab #: Control 11192020	Additional ID: Negative Control Purposes	Plated Date: 11/19/2020
Sample Name: Control 11192020		
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>	11/22/2020
Coliforms	nd	cfu/ml	10	Bam C4 sec G	11/20/2020
E. coli	absent	P/A	1	USP 42-NF 37 <2022>	11/22/2020
Staph aureus	absent	P/A	1	USP 42-NF 37 <2022>	11/22/2020
Yeast	nd	cfu/ml	10	USP 42-NF 37 <2021>	11/24/2020
Mold	nd	cfu/ml	10	USP 42-NF 37 <2021>	11/24/2020
Salmonella	absent	P/A	1 .	USP 42-NF 37 <2022>	11/23/2020
Pseudo. aeruginosa	absent	P/A	1	USP 42-NF 37 <m62></m62>	11/22/2020

200 Mering Companies with Approved By: QA Director SMV 11/24/2020



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