

STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

Full Spectrum Hemp Oil 10/2020 PRODUCT: PRODUCTION DATE: 10/2022 ND201009 **EXPIRATION DATE:** BATCH/LOT: Organic Hemp Seed Oil, Full Spectrum Hemp Extract **INGREDIENTS:** ADDITIVES: none EXCIPIENTS: none

TEST	METHOD	SPECIFICATION	RESULTS	
Strength & Composition	and the second s			
Identity	Organoleptic	Conforming	PASS	
Identity	UPLC/UV	Chemical Fingerprint	PASS	
Total Cannabidiol (CBD) ⁱ	UPLC/UV	36.8 – 40.8 mg/g	41.3 mg/g ⁱⁱ	
Total Tetrahydrocannabinol (THC) ⁱⁱⁱ	UPLC/UV	NMT 0.30%	0.15%	
Terpene assay ^{iv}	HS-GC/MS	n/e	5,280 ppm	
Microbiological ^v		11		
Total Plate Count	USP 42	NMT 1,000 cfu/ml	PASS	
Total Yeast & Mold	USP 42	NMT 100 cfu/ml	PASS	
E. coli	USP 42	Absent	PASS	
Salmonella	USP 42	Absent	PASS	
Heavy Metals ^{vi}	and the second			
Arsenic (As)	ICP/MS	NMT 1.0 ppm	PASS	
Cadmium (Cd)	ICP/MS	NMT 0.5 ppm	PASS	
Lead (Pb)	ICP/MS	NMT 1.0 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	PASS	

David Cole

Director of Quality

- ⁱ Total CBD = CBD + (0.877*CBDa) to account for loss of acid group during decarboxylation " Corresponds to 38.1mg/ml
- iii Total THC = THC + (0.877*THCa) to account for loss of acid group during decarboxylation iv Sum of terpene assay (n=22)
- 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 11 solvent panel: Propane, Butane, Pentane, Ethanol, Acetone, Isopropyl Alcohol, Hexane, Benzene, Heptanes, Toluene, Xylenes

Straight Hemp | 5135 W 58th Ave Unit 5, Arvada, CO 80002 | (720) 739-1578 | www.straighthemp.com

Date

n/e = not established

MRL = Method Reporting Limit

NMT = Not More Than

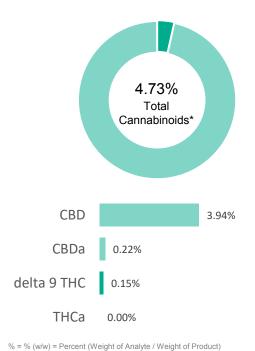


prepared for: Straight Hemp 5135 W 58th Ave, Unit 5 Arvada, CO 80002

Full Spectrum Hemp Oil

Batch ID:	ND201009	Test ID:	T000103262
Туре:	Concentrate	Submitted:	10/14/2020 @ 04:52 PM
Test:	Potency	Started:	10/15/2020
Method:	TM14	Reported:	10/16/2020

CANNABINOID PROFILE



** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during

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

Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA	-A) 0.02	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC) 0.01	0.15	1.5
Cannabidiolic acid (CBDA)	0.01	0.22	2.2
Cannabidiol (CBD)	0.02	3.94	39.4
Delta 8-Tetrahydrocannabinol (Delta 8THC) 0.01	ND	ND
Cannabinolic Acid (CBNA)	0.03	ND	ND
Cannabinol (CBN)	0.01	ND	ND
Cannabigerolic acid (CBGA)	0.02	ND	ND
Cannabigerol (CBG)	0.01	0.11	1.1
Tetrahydrocannabivarinic Acid (THCVA)	0.02	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.01	ND	ND
Cannabidivarin (CBDV)	0.00	0.02	0.2
Cannabichromenic Acid (CBCA)	0.02	ND	ND
Cannabichromene (CBC)	0.02	0.29	2.9
Total Cannabinoids		4.73	47.3
Total Potential THC**		0.15	1.5
Total Potential CBD**		4.13	41.3

NOTES:

% = % (w/w) = Percent (Weight of Analyte / Weight of Product) * Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

FINAL APPROVAL

Mi

PREPARED BY / DATE

decarboxylation step.

Mara Miller 16-Oct-2020 12:16 PM



APPROVED BY / DATE

Greg Zimpfer 16-Oct-2020 1:59 PM

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prepared for: Straight Hemp

5135 W 58th Ave, Unit 5 Arvada, CO 80002

Full Spectrum Hemp Oil

Batch ID:	ND201009	Test ID:	T000103265
Туре:	Concentrate	Submitted:	10/14/2020 @ 04:52 PM
Test:	Terpenes	Started:	10/15/2020
Method:	TM10	Reported:	10/20/2020

TERPENE PROFILE



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11:19 AM

20-Oct-2020 3:10 PM

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

Full Spectrum Hemp Oil

Batch ID:	ND201009	Test ID:	T000103267
Туре:	Other	Submitted: 10/14/2020 @ 04:52 PM	
Test:	Metals	Started:	10/19/2020
Method:	TM19	Reported:	10/20/2020

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.074 - 7.42	ND
Cadmium	0.071 - 7.08	ND
Mercury	0.070 - 7.03	ND
Lead	0.075 - 7.53	ND

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

FINAL APPROVAL

Ryan Weems 20-Oct-2020 2:38 PM

Den Muton

Ben Minton 20-Oct-2020 4:24 PM

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

Full Spectrum Hemp Oil

Batch ID:	ND201009	Test ID:	T000103264
Туре:	Concentrate	Submitted:	10/14/2020 @ 04:52 PM
Test:	Residual Solvents	Started:	10/19/2020
Method:	TM04	Reported:	10/19/2020

RESIDUAL SOLVENTS

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	88 - 1752	*ND
Butanes (Isobutane, n-Butane)	171 - 3423	*ND
Methanol	55 - 1105	*ND
Pentane	89 - 1785	*ND
Ethanol	88 - 1753	*ND
Acetone	91 - 1813	*ND
Isopropyl Alcohol	96 - 1916	*ND
Hexane	5 - 110	*ND
Ethyl Acetate	90 - 1807	*ND
Benzene	0.2 - 3.6	*ND
Heptanes	88 - 1768	*ND
Toluene	16 - 323	*ND
Xylenes (m,p,o-Xylenes)	117 - 2335	*ND

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

NOTES: N/A

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Ryan Weems 19-Oct-2020 5:31 PM

APPROVED BY / DATE

7:12 PM

Greg Zimpfer

19-Oct-2020

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

Full Spectrum Hemp Oil

Batch ID:	ND201009	Test ID:	T000103266
Туре:	Concentrate	Submitted: 10/14/2020 @ 04:52 PM	
Test:	Pesticides	Started: 10/19/2020	
Method:		Reported:	10/20/2020

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	37 - 2278	ND*
Acetamiprid	37 - 2278	ND*
Abamectin	>303	ND*
Azoxystrobin	45 - 2278	ND*
Bifenazate	42 - 2278	ND*
Boscalid	46 - 2278	ND*
Carbaryl	38 - 2278	ND*
Carbofuran	38 - 2278	ND*
Chlorantraniliprole	48 - 2278	ND*
Chlorpyrifos	37 - 2278	ND*
Clofentezine	265 - 2278	ND*
Diazinon	265 - 2278	ND*
Dichlorvos	>261	ND*
Dimethoate	36 - 2278	ND*
E-Fenpyroximate	253 - 2278	ND*
Etofenprox	38 - 2278	ND*
Etoxazole	268 - 2278	ND*
Fenoxycarb	>41	ND*
Fipronil	50 - 2278	ND*
Flonicamid	43 - 2278	ND*
Fludioxonil	>272	ND*
Hexythiazox	36 - 2278	ND*
Imazalil	262 - 2278	ND*
Imidacloprid	36 - 2278	ND*
Kresoxim-methyl	43 - 2278	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	272 - 2278	ND*
Metalaxyl	43 - 2278	ND*
Methiocarb	39 - 2278	ND*
Methomyl	39 - 2278	ND*
MGK 264 1	137 - 2278	ND*
MGK 264 2	106 - 2278	ND*
Myclobutanil	40 - 2278	ND*
Naled	45 - 2278	ND*
Oxamyl	36 - 2278	ND*
Paclobutrazol	40 - 2278	ND*
Permethrin	241 - 2278	ND*
Phosmet	44 - 2278	ND*
Prophos	274 - 2278	ND*
Propoxur	39 - 2278	ND*
Pyridaben	272 - 2278	ND*
Spinosad A	25 - 2278	ND*
Spinosad D	74 - 2278	ND*
Spiromesifen	>244	ND*
Spirotetramat	>292	ND*
Spiroxamine 1	16 - 2278	ND*
Spiroxamine 2	22 - 2278	ND*
Tebuconazole	285 - 2278	ND*
Thiacloprid	36 - 2278	ND*
Thiamethoxam	34 - 2278	ND*
Trifloxystrobin	40 - 2278	ND*

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

N/A

FINAL APPROVAL

Samantha Small

Sam Smith 20-Oct-2020 2:30 PM

Den Muton

APPROVED BY / DATE

Ben Minton 20-Oct-2020 4:32 PM

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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: 20.1552 PO Number: Received Date: 10/15/2020 Number of Samples: 02 Project Name: **Routine Testing**

Microbiology Report:

Sample Name: Full Spectrum Hemp Oil Qualifying Material Number: No QM Additional ID: Plated Date: 10/15/2020 Test Performed Results Units Detection Limit Method Date Analyzed Aerobic Plate Count nd cfu/ml 10 USP 42-NF 37 <2021> 10/18/2020 E. coli absent P/A 1 USP 42-NF 37 <2022> 10/18/2020 Yeast nd cfu/ml 10 USP 42-NF 37 <2022> 10/18/2020 Yeast nd cfu/ml 10 USP 42-NF 37 <2022> 10/18/2020 Mold nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Mold nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Salmonella absent P/A 1 USP 42-NF 37 <2022> 10/19/2020 Pseudo. aeruginosa absent P/A 1 USP 42-NF 37 <m62> 10/18/2020 Approved By: QA Director SMV 10/20/2020 Image: Component Apple Image: Component Apple Image: Component Apple Image: Component Apple MMMM Image: Component Apple Image: Component Apple Image: Component Apple Imag</m62>	Lab #: 20-9672			Sample Lot: ND2010	009	Sample Date:	
Test PerformedResultsUnitsDetection LimitMethodDate AnalyzedAerobic Plate Countndcfu/ml10USP 42-NF 37 <2021>10/18/2020E. coliabsentP/A1USP 42-NF 37 <2022>10/18/2020Staph aureusabsentP/A1USP 42-NF 37 <2022>10/18/2020Yeastndcfu/ml10USP 42-NF 37 <2021>10/20/2020Moldndcfu/ml10USP 42-NF 37 <2021>10/20/2020SalmonellaabsentP/A1USP 42-NF 37 <2022>10/18/2020Pseudo. aeruginosaabsentP/A1USP 42-NF 37 <2022>10/18/2020Approved By: QA Director SMV 10/20/2020				Additional ID:		Plated Date: 10/15/2020	
Limit Analyzed Aerobic Plate Count nd cfu/ml 10 USP 42-NF 37 <2021> 10/18/2020 E. coli absent P/A 1 USP 42-NF 37 <2022> 10/18/2020 Staph aureus absent P/A 1 USP 42-NF 37 <2022> 10/18/2020 Yeast nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Mold nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Salmonella absent P/A 1 USP 42-NF 37 <2022> 10/19/2020 Pseudo. aeruginosa absent P/A 1 USP 42-NF 37 <2022> 10/19/2020 Approved By: QA Directry SMV 10/20/20/20 P/A 1 USP 42-NF 37 <2022> 10/19/2020	Qualifying Material Number: No QM			2			
E. coli absent P/A 1 USP 42-NF 37 <2022> 10/18/2020 Staph aureus absent P/A 1 USP 42-NF 37 <2022> 10/18/2020 Yeast nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Mold nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Salmonella absent P/A 1 USP 42-NF 37 <2022> 10/19/2020 Pseudo. aeruginosa absent P/A 1 USP 42-NF 37 <2022> 10/18/2020	Test Performed	Results	Units		Method	/	
Staph aureus absent P/A 1 USP 42-NF 37 <2022> 10/18/2020 Yeast nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Mold nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Salmonella absent P/A 1 USP 42-NF 37 <2022> 10/19/2020 Pseudo. aeruginosa absent P/A 1 USP 42-NF 37 <m62> 10/18/2020</m62>	Aerobic Plate Count	nd	cfu/ml	10	USP 42-NF 37	7 <2021>	10/18/2020
Yeast nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Mold nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Salmonella absent P/A 1 USP 42-NF 37 <2022> 10/19/2020 Pseudo. aeruginosa absent P/A 1 USP 42-NF 37 <m62> 10/18/2020 Approved By: QA Director SMV 10/20/2002 MMM July 42-NF 37 <m62> 10/18/2020</m62></m62>	E. coli	absent	P/A	1	USP 42-NF 37	7 <2022>	10/18/2020
Mold nd cfu/ml 10 USP 42-NF 37 <2021> 10/20/2020 Salmonella absent P/A 1 USP 42-NF 37 <2022> 10/19/2020 Pseudo. aeruginosa absent P/A 1 USP 42-NF 37 <m62> 10/18/2020 Approved By: QA Director SMV 10/20/200 MddM</m62>	Staph aureus	absent	P/A	1	USP 42-NF 37	7 <2022>	10/18/2020
SalmonellaabsentP/A1USP 42-NF 37 <202>10/19/2020Pseudo. aeruginosaabsentP/A1USP 42-NF 37 <m62>10/18/2020Approved By: QA Director SMV 10/20/2020Malladi</m62>	Yeast	nd	cfu/ml	10	USP 42-NF 37	7 <2021>	10/20/2020
Pseudo. aeruginosa absent P/A 1 USP 42-NF 37 <m62> 10/18/2020 Approved By: QA Director SMV 10/20/2020 Malta</m62>	Mold	nd	cfu/ml	10	USP 42-NF 37	7 <2021>	10/20/2020
Approved By: QA Director SMV 10/20/2020	Salmonella	absent	P/A	1	USP 42-NF 37	7 <2022>	10/19/2020
Malter	Pseudo. aeruginosa	absent	P/A	1 -	USP 42-NF 37	7 <m62></m62>	10/18/2020
anning.	Malter			Compar	nies with	Pesult.	

Approved By: QA Director SMV 10/20/2020

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

Invoice Number: 20.1552 PO Number: Received Date: 10/15/2020 Number of Samples: 02 Project Name: **Routine Testing**

Microbiology Report:

(1, 1, 1) $(1, 1, 1, 0)$			Additional ID: Negative Control Purposes		Plated Date: 10/15/2020
Sample Name: Control 1015					
Qualifying Material Number	: QM-06-001			2	
Test Performed	Results	Units	Detection Limit	Method	Date Analyzed
Aerobic Plate Count	nd	cfu/ml	10	USP 42-NF 37	<2021> 10/18/2020
E. coli	absent	P/A	1	USP 42-NF 37	<2022> 10/18/2020
Staph aureus	absent	P/A	1	USP 42-NF 37	<2022> 10/18/2020
Yeast	nd	cfu/ml	10	USP 42-NF 37	<2021> 10/20/2020
Mold	nd	cfu/ml	10	USP 42-NF 37	<2021> 10/20/2020
Salmonella	absent	P/A	1	USP 42-NF 37	<2022> 10/19/2020
Pseudo. aeruginosa	absent	P/A	1 .	USP 42-NF 37	<m62> 10/18/2020</m62>
Approved By: QA Dire	ctor SMV 10/2		Compar	nies with	in the securit

Approved By: QA Director SMV 10/20/2020

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