

STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT:	Full Spectrum Hemp Oil – Certified Organic	PRODUCTION DATE:	6/2022
BATCH/LOT:	0022172	EXPIRATION DATE:	6/2024
INGREDIENTS:	Organic Hemp Seed Oil, Organic Full Spectrum Hemp Extract,	Hemp Terpenes	
ADDITIVES:	none		
EXCIPIENTS:	none		

TEST	METHOD SPECIFICATION		RESULTS	
Strength & Composition				
Identity	Organoleptic	Conforming	PASS	
Identity	HPLC-DAD	Chemical Fingerprint	PASS	
Total Cannabidiol (CBD) ⁱ	HPLC-DAD	36.7 – 42.3 mg/g	40.22 mg/g ⁱⁱ	
Total Tetrahydrocannabinol (THC)	HPLC-DAD	NMT 0.30%	0.156%	
Terpene assay ^{iv}	HS-GC/MS	n/e	5,233 ppm	
Microbiological ^v				
Total Plate Count	TM-26	NMT 10,000 cfu/g	PASS	
Total Yeast & Mold	TM-24	NMT 1,000 cfu/g	PASS	
Total Coliforms	TM-27	NMT 1,000 cfu/g	PASS	
E. coli	TM-25	Absent/25g	PASS	
Salmonella	TM-25	Absent/25g	PASS	
Mycotoxins				
Alfatoxin B1	LCMS	NMT 20 ppb	PASS	
Alfatoxin B2	LCMS	NMT 20 ppb	PASS	
Alfatoxin G1	LCMS	NMT 20 ppb	PASS	
Alfatoxin G2	LCMS	NMT 20 ppb	PASS	
Ochratoxin	LCMS	NMT 20 ppb	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	
	ICP/MS			
Mercury (Hg)		NMT 0.1 ppm	PASS	

- ⁱ Total CBD = CBD + (0.877*CBDa) to account for loss of acid group during decarboxylation
- " Corresponds to 37.1 mg/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 6 CCR 1010-21



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ADDITIVES:	none		
EXCIPIENTS:	none		

TEST	METHOD	SPECIFICATION	RESULTS
Residual Solvents ^{vii}			
Acetone	GC-MS	Balaw MARI	DAGG
Benzene	GC-MS GC-MS	Below MRL	PASS
Butanes	GC-MS	Below MRL	PASS
Ethanol	GC-MS	Below MRL	PASS
Ethyl Acetate	GC-MS	Below MRL	PASS
Heptanes		Below MRL	PASS
Hexane	GC-MS	Below MRL	PASS
	GC-MS	Below MRL	PASS
Isopropyl Alcohol	GC-MS	Below MRL	PASS
Methanol	GC-MS	Below MRL	PASS
Pentane	GC-MS	Below MRL	PASS
Propane	GC-MS	Below MRL	PASS
Toluene	GC-MS	Below MRL	PASS
Xylenes	GC-MS	Below MRL	PASS
Pesticides Multi-residue panel	UPLC-MS/MS	Below MRL ^{viii}	PASS
NM	IT = Not More Than MRL = Method	d Reporting Limit n/e = no	t established
N	3		7/12/22
David Cole Director of Quality			Date
vii 21 solvent nanel may also include: 1.1.		ile Chloroform Ethyl Ether Ethylers Outd	

vii 21 solvent panel may also include: 1,1-Dichlorothene, 1,2-Dichloroethane, Acetonitrile, Chloroform, Ethyl Ether, Ethylene Oxide, Methylene Chloride, Trichloroethylene.

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



Official Compliance: Colorado CERTIFICATE OF ANALYSIS

Prepared for:

ORGANIC Full Spectrum Oil

Straight Hemp

Batch ID or Lot Number: OO22172	Test: Potency	Reported: 6/30/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000211691	Started: 6/29/22	USDA License: N/A
Status: Active	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	Received: 06/24/2022 @ 11:15 AM	Sampler ID: N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.009	ND	ND	NOLES
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.010	0.156	1.56	N/A
Cannabidiolic acid (CBDA)	0.018	0.059	<loq< td=""><td>0.57</td><td></td></loq<>	0.57	
Cannabidiol (CBD)	0.017	0.057	3.972	39.72	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.020	0.064	ND	ND	
Cannabinolic Acid (CBNA)	0.011	0.036	ND	ND	
Cannabinol (CBN)	0.005	0.017	0.018	0.18	
Cannabigerolic acid (CBGA)	0.017	0.053	ND	ND	
Cannabigerol (CBG)	0.004	0.013	ND	ND	
Tetrahydrocannabivarinic Acid (THCVA)	0.014	0.045	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.012	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.007	0.025	ND	ND	
Cannabidivarin (CBDV)	0.004	0.014	0.014	0.14	
Cannabichromenic Acid (CBCA)	0.006	0.021	ND	ND	
Cannabichromene (CBC)	0.007	0.023	0.132	1.32	
Total Cannabinoids			4.349	43.49	
Total Potential THC**			0.156	1.56	
Total Potential CBD**			4.022	40.22	

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9:42 AM PREPARED BY / DATE

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30-Jun-22

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Definitions

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

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

Sam Smith

30-Jun-22

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)







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

ORGANIC Full Spectrum Oil

	•		
Batch ID:	0022172	Test ID:	T000211692
Туре:	Concentrate	Submitted:	06/24/2022 @ 11:15 AM
Test:	Terpenes	Started:	6/30/2022
Method:	TM22 (GC-MS)	Reported:	6/30/2022

TERPENE PROFILE



Danuel Westersaul

Daniel Weidensaul 30-lun-2022 5:17 PM



lacob Miller 30-lun-2022 5:19 PM

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Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. 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



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

ORGANIC Full Spectrum Oil

	•		
Batch ID:	0022172	Test ID:	T000211692
Туре:	Concentrate	Submitted:	06/24/2022 @ 11:15 AM
Test:	Terpenes	Started:	6/30/2022
Method:	TM22 (GC-MS)	Reported:	6/30/2022

TERPENE PROFILE



Danuel Westersaul

Daniel Weidensaul 30-lun-2022 5:17 PM



lacob Miller 30-lun-2022 5:19 PM

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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: 22.0832 PO Number: Received Date: 06/24/2022 Number of Samples: 02 Project Name: **Routine Testing**

Microbiology Report:

Lab #: 22-5988			Sample Lot: OO22172		Sample Date:	
Sample Name: Organic Full Spectrum oil			Additional ID:		Plated Date: 06/24/2022	
Qualifying Material Number	: No QM					
Test Performed	Results	Units	Detection Limit	Method	Date Analyzed	
Aerobic Plate Count	395	cfu/ml	10	USP 43-NF 38	3 <2021> 06/27/2022	
Coliforms	nd	cfu/ml	10	Bam C4 sec G	06/25/2022	
E. coli	absent	P/A	1	USP 43-NF 38	8 <2022> 06/27/2022	
Staph aureus	absent	P/A	1	USP 43-NF 38	3 <2022> 06/27/2022	
Yeast	nd	cfu/ml	10	USP 43-NF 38	3 <2021> 06/29/2022	
Mold	nd	cfu/ml	10	USP 43-NF 38	8 <2021> 06/29/2022	
Salmonella	absent	P/A	1 -	USP 43-NF 38	8 <2022> 06/28/2022	
Pseudo. aeruginosa	absent	P/A	1	USP 43-NF 38	3 <m62> 06/27/2022</m62>	

on oring Companies with Approved By: QA Director SMV 06/29/2022



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Note: On this date, this material met the specifications designated above, and is not known if statistically representative of the lot evaluated on a routine basis. This information is not intended to relieve the purchaser from its responsibility to determine the suitability of this material for purchaser's purposes, to comply with all laws and regulations regarding the safe use of this material. nd = none detected above the listed detection limit



Prepared for:

ORGANIC Full Spectrum Oil

Straight Hemp

Batch ID or Lot Number: OO22172	^{Test:} Mycotoxins	Reported: 6/30/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000211696	Started: 6/29/22	USDA License: N/A
Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 06/24/2022 @ 11:15 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dyr	amic Range (ppb)	Result (ppb)	Notes
Ochratoxin A		1.6 - 126.4	ND	N/A
Aflatoxin B1		1 - 31.5	ND	
Aflatoxin B2		1.3 - 31.3	ND	
Aflatoxin G1		1.1 - 31.2	ND	
Aflatoxin G2		1.4 - 31.5	ND	
Total Aflatoxins (B1, B2, G	1, and G2)		ND	
	Sam Smith		Jacob Miller 30-Jun-22	
Samantha Small	30-Jun-22 3:25 PM	//	30-Jun-22 3:29 PM	

Definitions

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





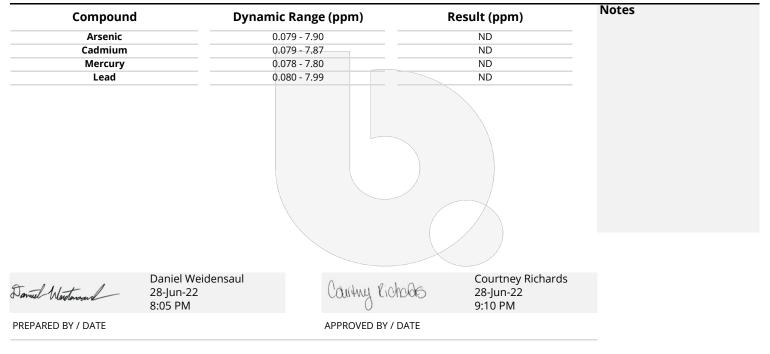
Prepared for:

ORGANIC Full Spectrum Oil

Straight Hemp

Batch ID or Lot Number: OO22172	Test: Metals	Reported: 6/28/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000211694	6/27/22	N/A
Status:	Method:	Received:	Sampler ID:
Active	TM19 (ICP-MS): Heavy Metals	06/24/2022 @ 11:15 AM	N/A

HEAVY METALS DETERMINATION



Definitions

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







Prepared for:

ORGANIC Full Spectrum Oil

Straight Hemp

Batch ID or Lot Number: OO22172	Test: Residual Solvents	Reported: 6/29/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002		
Matrix:	Test ID:	Started:	USDA License:		
N/A	T000211695	6/28/22	N/A		
Status:	Methods:	Received:	Sampler ID:		
Active	TM04 (GC-MS): Residual Solver	hts 06/24/2022 @ 11:15 AM	N/A		

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes		
Propane	84 - 1677	*ND			
Butanes (Isobutane, n-Butane)	173 - 3458	*ND			
Methanol	62 - 1239	*ND			
Pentane	93 - 1868	*ND			
Ethanol	93 - 1858	*ND			
Acetone	100 - 1995	*ND			
Isopropyl Alcohol	101 - 2024	*ND			
Hexane	6 - 123	*ND			
Ethyl Acetate	102 - 2050	*ND			
Benzene	0.2 - 4	*ND			
Heptanes	98 - 1968	*ND			
Toluene	18 - 370	*ND			
Xylenes (m,p,o-Xylenes)	136 - 2724	*ND			

Samantha Small

Sam Smith 29-Jun-22 7:18 PM

Daniel Westman

Daniel Weidensaul 29-Jun-22 7:23 PM

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Definitions

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







Prepared for:

ORGANIC Full Spectrum Oil

Straight Hemp

Batch ID or Lot Number: 0022172	Test: Pesticides	Reported: 7/1/22	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002 USDA License: N/A		
Matrix: Concentrate	Test ID: T000211693	Started: 6/30/22			
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 06/24/2022 @ 11:15 AM	Sampler ID: N/A		

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	41	ND	Fenoxycarb	36	ND	Paclobutrazol	43	ND
Acetamiprid	43	ND	Fipronil	22	ND	Permethrin	298	ND
Abamectin	306	ND	Flonicamid	48	ND	Phosmet	40	ND
Azoxystrobin	47	ND	Fludioxonil	333	ND	Prophos	287	ND
Bifenazate	44	ND	Hexythiazox	46	ND	Propoxur	42	ND
Boscalid	67	ND	Imazalil	292	ND	Pyridaben	299	ND
Carbaryl	38	ND	Imidacloprid	44	ND	Spinosad A	36	ND
Carbofuran	43	ND	Kresoxim-methyl	150	ND	Spinosad D	49	ND
Chlorantraniliprole	55	ND	Malathion	293	ND	Spiromesifen	235	ND
Chlorpyrifos	500	ND	Metalaxyl	49	ND	Spirotetramat	293	ND
Clofentezine	280	ND	Methiocarb	45	ND	Spiroxamine 1	19	ND
Diazinon	283	ND	Methomyl	42	ND	Spiroxamine 2	25	ND
Dichlorvos	280	ND	MGK 264 1	109	ND	Tebuconazole	284	ND
Dimethoate	45	ND	MGK 264 2	121	ND	Thiacloprid	43	ND
E-Fenpyroximate	290	ND	Myclobutanil	49	ND	Thiamethoxam	42	ND
Etofenprox	41	ND	Naled	43	ND	Trifloxystrobin	43	ND
Etoxazole	297	ND	Oxamyl	1500	ND			

Daniel WeidensaulSam SmithJonuel Weidensaul7/1/202212:16:00 PMJanuar March Ma

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Definitions LOQ = Limit of Quantification ppb = Parts per Billion

