

Certificate of Analysis

FSHE

PRODUCT CODE: 9XVAR-0
PRODUCT NAME:
MANUFACTURER:
LOT NUMBER:
DATE OF MANUFACTURING: 1-FEB-2020
BEST BY: 31-JAN-2021
DESCRIPTION: Full Spectrum Hemp Extract
ADDITIVES: None

Analytical Specification:

Parameter	Method	Description/Limits	Result
Appearance	Visual	Clear to amber viscous liquid	Complies
Aroma	Organoleptic	herbaceous	Complies
Water Content	Karl Fischer	<2%	0.14%

Cannabinoid Composition

Total CBD (CBD+CBDA)	HPLC per OLCC	Greater than 63 wt%	70.7 wt%
Decarboxylated THC (D9-THC + 0.877*THCA)	HPLC per OLCC	Less than 5 wt%	1.72wt%

Microbiology	Method	Limits	Result
Total Plate Count	ESS_2.2.1	<100 cfu/g	<10 cfu/g
Yeast & Mold Count	ESS_2.2.5	<100 cfu/g	Negative
<i>Escherichia coli</i>	ESS_2.2.17	Negative	Negative
<i>Salmonella</i> sp.	ESS_2.2.6	Negative per 25 g	Negative per 25 g
Total Coliforms	ESS_2.2.17	<10 cfu/g	Negative

Heavy Metals	Method	Limits	Result
Arsenic	ESS_3.2.1.202/ICP-MS	0.2 ppm	<0.01 ppm
Cadmium	ESS_3.2.1.202/ICP-MS	0.2 ppm	<0.01 ppm
Lead	ESS_3.2.1.202/ICP-MS	0.2 ppm	0.016 ppm
Mercury	ESS_3.2.1.207/ICP-MS	0.2 ppm	<0.01 ppm

PACKAGING:

Packed in food grade container

STORAGE AND HANDLING:

Store originally sealed container in a cool conditions (35 °C or less) and protected from light and moisture. Avoid excessive heat during storage.

BEST BEFORE DATE:

12 months when stored in unopened and sealed containers at recommended storage conditions.

	Printed Name	Signature	Title	Date
Prepared by:	Sarah Monroe	<i>Sarah Monroe</i>	Director of Quality & Compliance	25-FEB-2020



2535 N Ross Ave info@lightscale.com
 Portland, OR 97227 ORELAP #4112
 (503) 493-2535 CLCC #010-10033400344

20032A1

Sample Type: Hemp Extract
 Sample Date: 2/11/2020
 Analysis Date: 2/13/2020
 Report Date: 2/24/2020

Metric Batch ID:
 Metric Sample ID:

Harvest/Process Date: 2/1/2020
 Report ID: LS-200219-9
 Sample Plan ID: SP-200211-1-B
 Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Potency

Potency Analysis Date: 2/14/2020
 Potency Batch ID: CAN_021420D
 Potency Method: JAOAC 2015.1

70.7%

Total
CBD

1.72%

Total
THC



Samples: TXM-SGN-MBP, WRX-WYD-STF

Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: %
Δ9THC	Delta-9 Tetrahydrocannabinol	0.0080	3.70	1.35	1.40	1.38	μg
THCA	Tetrahydrocannabinolic acid	0.0080	6.48	0.376	0.401	0.389	μg
CBD	Cannabidiol	0.0080	2.74	25.6	26.4	26.0	μg
CBDA	Cannabidiolic acid	0.0080	5.03	43.6	45.8	44.7	μg
Δ8THC	Delta-8 Tetrahydrocannabinol*	0.0080	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.0080	13.7	0.0530	0.0608	0.0569	μg
CBG	Cannabigerol*	0.0080	5.26	0.506	0.533	0.519	μg
CBGA	Cannabigerolic acid*	0.0080	3.85	0.382	0.397	0.389	μg
CBC	Cannabichromene*	0.0080	7.76	1.50	1.62	1.56	μg
CBCA	Cannabichromenic acid*	0.0080	3.48	1.77	1.83	1.80	μg
CBN	Cannabinol	0.0080	4.99	0.227	0.238	0.232	μg
Total THC	Δ9THC + (THCA × 0.877)		4.25	1.68	1.76	1.72	μg
Total CBD	CBD + (CBDA × 0.877)		1.93	63.9	66.5	65.2	μg
Total			1.82	75.4	78.7	77.0	

Compliance

Pesticides	Within limits	Analysis Date: 2/13/2020	Pass <input checked="" type="checkbox"/>
Solvents	Within limits	Analysis Date: 2/13/2020	Pass <input checked="" type="checkbox"/>
Potency	Within limits	Analysis Date: 2/14/2020	Pass <input checked="" type="checkbox"/>

Bryce Kidd, Ph.D.
Lab Director

Aaron Troyer
Chief Science Officer



LS-200219-9

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2535 N Ross Ave info@lightscale.com
 Portland, OR 97227 ORELAP #4112
 (503) 493-2535 OLC# #010-10033400344

20032A1

Sample Type: Hemp Extract
 Sample Date: 2/11/2020
 Analysis Date: 2/13/2020
 Report Date: 2/24/2020

Metric Batch ID:
 Metric Sample ID:

Harvest/Process Date: 2/1/2020
 Report ID: LS-200219-9
 Sample Plan ID: SP-200211-1-B
 Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Pesticides
Sample Data

Pesticides Analysis Date: 2/13/2020 Method: EN 15662 Pass
 Pesticides Batch ID: PST_021320B Unit: µg/g (ppm)

Analyte	WRX-WWD-STF	TXM-SGN-MBP	Limits	LOQ	Notes	Status	Analyte	WRX-WWD-STF	TXM-SGN-MBP	Limits	LOQ	Notes	Status
Abamectin	ND	ND	0.5	0.1		Pass	Metalaxyl	ND	ND	0.2	0.1		Pass
Acephate	ND	ND	0.4	0.1		Pass	Methiocarb	ND	ND	0.2	0.1		Pass
Acequinocyl	ND	ND	2.0	1.5		Pass	Methomyl	ND	ND	0.4	0.1		Pass
Acetamiprid	ND	ND	0.2	0.1		Pass	Methyl Parathion	ND	ND	0.2	0.2		Pass
Aldicarb	ND	ND	0.4	0.1		Pass	MCK-264	ND	ND	0.2	0.2		Pass
Azoxystrobin	ND	ND	0.2	0.1		Pass	Myclobutanil	ND	ND	0.2	0.1		Pass
Bifenazate	ND	ND	0.2	0.1		Pass	Naled	ND	ND	0.5	0.2		Pass
Bifenthrin	ND	ND	0.2	0.1		Pass	Oxamyl	ND	ND	1.0	0.1		Pass
Boscalid	ND	ND	0.4	0.1		Pass	Paclobutrazol	ND	ND	0.4	0.1		Pass
Carbaryl	ND	ND	0.2	0.1		Pass	Permethrins	ND	ND	0.2	0.1		Pass
Carbofuran	ND	ND	0.2	0.1		Pass	Phosmet	ND	ND	0.2	0.1		Pass
Chlorantraniliprole	ND	ND	0.2	0.1		Pass	Piperonyl Butoxide	ND	ND	2.0	0.1		Pass
Chlorfenapyr	ND	ND	1.0	0.1		Pass	Prallethrin	ND	ND	0.2	0.1		Pass
Chlorpyrifos	ND	ND	0.2	0.1		Pass	Propiconazole	ND	ND	0.4	0.1		Pass
Clofentezine	ND	ND	0.2	0.1		Pass	Propoxur	ND	ND	0.2	0.1		Pass
Cyfluthrin	ND	ND	1.0	0.5		Pass	Pyrethrins	ND	ND	1.0	0.5		Pass
Cypermethrin	ND	ND	1.0	0.1		Pass	Pyridaben	ND	ND	0.2	0.1		Pass
Daminozide	ND	ND	1.0	0.5		Pass	Spinosad	ND	ND	0.2	0.1		Pass
Diazinon	ND	ND	0.2	0.1		Pass	Spiromesifen	ND	ND	0.2	0.1		Pass
Dichlorvos (DDVP)	ND	ND	1.0	0.5		Pass	Spirotetramat	ND	ND	0.2	0.1		Pass
Dimethoate	ND	ND	0.2	0.1		Pass	Spiroxamine	ND	ND	0.4	0.1		Pass
Ethoprophos	ND	ND	0.2	0.1		Pass	Tebuconazole	ND	ND	0.4	0.1		Pass
Etofenprox	ND	ND	0.4	0.1		Pass	Thiacloprid	ND	ND	0.2	0.1		Pass
Etoazole	ND	ND	0.2	0.1		Pass	Thiamethoxam	ND	ND	0.2	0.1		Pass
Fenoxycarb	ND	ND	0.2	0.1		Pass	Trifloxystrobin	ND	ND	0.2	0.1		Pass
Fenpyroximate	ND	ND	0.4	0.1		Pass							
Fipronil	ND	ND	0.4	0.1		Pass							
Flonicamid	ND	ND	1.0	0.1		Pass							
Fludioxonil	ND	ND	0.4	0.1		Pass							
Hexythiazox	ND	ND	1.0	0.1		Pass							
Imazalil	ND	ND	0.2	0.1		Pass							
Imidacloprid	ND	ND	0.4	0.1		Pass							
Kresoxim-methyl	ND	ND	0.4	0.1		Pass							
Malathion	ND	ND	0.2	0.1		Pass							

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2535 N Ross Ave info@lightscale.com
 Portland, OR 97227 ORELAP #4112
 (503) 493-2535 OLCC #010-10033400544

20032A1

Sample Type: Hemp Extract
 Sample Date: 2/11/2020
 Analysis Date: 2/13/2020
 Report Date: 2/24/2020

Metro Batch ID:
 Metro Sample ID:

Harvest/Process Date: 2/1/2020
 Report ID: LS-200219-9
 Sample Plan ID: SP-200211-1-B
 Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Pesticides Quality Control Data

Pesticides QC Analysis Date: 2/13/2020 Method: EN 15662
 Pesticides QC Batch ID: PST_021320B Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes	Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	1.21	1.00	121	50 - 150		Metalaxyl	ND	0.1	0.871	1.00	87.1	50 - 150	
Acephate	ND	0.1	0.862	1.00	86.2	50 - 150		Methiocarb	ND	0.1	0.843	1.00	84.3	50 - 150	
Acequinocyl	ND	1.5	ND	1.00	0.00	50 - 150	ND	Methomyl	ND	0.1	0.672	1.00	67.2	50 - 150	
Acetamiprid	ND	0.1	0.874	1.00	87.4	50 - 150		Methyl Parathion	ND	0.2	0.665	1.00	66.5	30 - 150	
Aldicarb	ND	0.1	0.661	1.00	66.1	50 - 150		MGK-264	ND	0.2	0.713	0.600	119	50 - 150	
Azoxystrobin	ND	0.1	0.937	1.00	93.7	50 - 150		Myclobutanil	ND	0.1	0.911	1.00	91.1	50 - 150	
Bifenazate	ND	0.1	3.34	1.00	334	50 - 150	HB	Naled	ND	0.2	1.45	1.00	145	50 - 150	
Bifenthrin	ND	0.1	0.836	1.00	83.6	50 - 150		Oxamyl	ND	0.1	0.841	1.00	84.1	50 - 150	
Boscalid	ND	0.1	0.933	1.00	93.3	50 - 150		Paclobutrazol	ND	0.1	0.985	1.00	98.5	50 - 150	
Carbaryl	ND	0.1	0.809	1.00	80.9	50 - 150		Permethrins	ND	0.1	0.924	1.00	92.4	50 - 150	
Carbofuran	ND	0.1	0.894	1.00	89.4	50 - 150		Phosmet	ND	0.1	1.05	1.00	105	50 - 150	
Chlorantraniliprole	ND	0.1	1.04	1.00	104	50 - 150		Piperonyl Butoxide	ND	0.1	0.843	1.00	84.3	50 - 150	
Chlorfenapyr	ND	0.1	1.09	1.00	109	50 - 150		Prallethrin	ND	0.1	1.08	1.00	108	50 - 150	
Chlorpyrifos	ND	0.1	0.943	1.00	94.3	50 - 150		Propiconazole	ND	0.1	1.06	1.00	106	50 - 150	
Clofentezine	ND	0.1	0.912	1.00	91.2	50 - 150		Propoxur	ND	0.1	0.679	1.00	67.9	50 - 150	
Cyfluthrin	ND	0.5	1.31	1.00	131	50 - 150		Pyrethrins	ND	0.5	0.518	1.00	51.8	50 - 150	
Cypermethrin	ND	0.1	1.12	1.00	112	50 - 150		Pyridaben	ND	0.1	1.12	1.00	112	50 - 150	
Daminozide	ND	0.5	0.530	1.00	53.0	10 - 150		Spinosad	ND	0.1	1.24	1.00	124	50 - 150	
Diazinon	ND	0.1	0.944	1.00	94.4	50 - 150		Spiromesifen	ND	0.1	1.24	1.00	124	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.690	1.00	69.0	50 - 150		Spirotetramat	ND	0.1	1.07	1.00	107	50 - 150	
Dimethoate	ND	0.1	0.842	1.00	84.2	50 - 150		Spiroxamine	ND	0.1	1.03	1.00	103	50 - 150	
Ethoprophos	ND	0.1	1.02	1.00	102	50 - 150		Tebuconazole	ND	0.1	1.03	1.00	103	50 - 150	
Etofenprox	ND	0.1	1.04	1.00	104	50 - 150		Thiacloprid	ND	0.1	0.773	1.00	77.3	50 - 150	
Etoxazole	ND	0.1	0.892	1.00	89.2	50 - 150		Thiamethoxam	ND	0.1	0.912	1.00	91.2	50 - 150	
Fenoxycarb	ND	0.1	1.30	1.00	130	50 - 150		Trifloxystrobin	ND	0.1	1.25	1.00	125	50 - 150	
Fenpyroximate	ND	0.1	0.863	1.00	86.3	50 - 150									
Fipronil	ND	0.1	1.21	1.00	121	50 - 150									
Flonicamid	ND	0.1	0.929	1.00	92.9	50 - 150									
Fludioxonil	ND	0.1	1.11	1.00	111	50 - 150									
Hexythiazox	ND	0.1	0.544	1.00	54.4	50 - 150									
Imazalil	ND	0.1	1.03	1.00	103	50 - 150									
Imidacloprid	ND	0.1	0.919	1.00	91.9	50 - 150									
Kresoxim-methyl	ND	0.1	1.09	1.00	109	50 - 150									
Malathion	ND	0.1	1.09	1.00	109	50 - 150									

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2535 N Ross Ave info@lightscale.com
 Portland, OR 97227 ORELAP #4112
 (503) 493-2535 OLCC #010-10033400344

20032A1

Sample Type: Hemp Extract
 Sample Date: 2/11/2020
 Analysis Date: 2/13/2020
 Report Date: 2/24/2020

Metric Batch ID:
 Metric Sample ID:

Harvest/Process Date: 2/1/2020
 Report ID: LS-200219-9
 Sample Plan ID: SP-200211-1-B
 Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Residual Solvents Sample Data

Solvents Analysis Date: 2/13/2020
 Solvents Batch ID: RES_021320A

Method: EPA 5021A
 Unit: µg/g (ppm)

Pass

Analyte	WRX-WWD-STF	TXM-SGN-MBP	RPD (%)	Limits	LOQ	Notes	Status
1,4-Dioxane	ND	ND	0.00	380.0	50.0		Pass
2-Butanol	ND	ND	0.00	5000.0	250.0		Pass
2-Ethoxyethanol	ND	ND	0.00	160.0	50.0		Pass
Acetone	<LOQ	<LOQ	0.00	5000.0	250.0		Pass
Acetonitrile	ND	ND	0.00	410.0	50.0		Pass
Benzene	ND	ND	0.00	2.0	2.0		Pass
Butanes	ND	ND	0.00	5000.0	250.0		Pass
Cumene	ND	ND	0.00	70.0	50.0		Pass
Cyclohexane	ND	ND	0.00	3800.0	50.0		Pass
Ethyl Acetate	ND	ND	0.00	5000.0	250.0		Pass
Ethyl Ether	ND	ND	0.00	5000.0	250.0		Pass
Ethylene Glycol	ND	ND	0.00	620.0	250.0		Pass
Ethylene Oxide	ND	ND	0.00	50.0	50.0		Pass
Heptane	ND	ND	0.00	5000.0	250.0		Pass
Hexanes	ND	ND	0.00	290.0	50.0		Pass
Isopropanol (2-Propanol)	ND	ND	0.00	5000.0	50.0		Pass
Isopropyl Acetate	ND	ND	0.00	5000.0	250.0		Pass
Methanol	ND	ND	0.00	3000.0	250.0		Pass
Dichloromethane	ND	ND	0.00	600.0	50.0		Pass
Pentanes	ND	ND	0.00	5000.0	250.0		Pass
Propane	ND	ND	0.00	5000.0	250.0		Pass
Tetrahydrofuran	ND	ND	0.00	720.0	50.0		Pass
Toluene	ND	ND	0.00	890.0	50.0		Pass
Xylenes	ND	ND	0.00	2170.0	50.0		Pass

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 Portland, OR 97227 ORELAP #4112
 (503) 493-2535 OLCC #010-10033400344

20032A1

Sample Type: Hemp Extract
 Sample Date: 2/11/2020
 Analysis Date: 2/13/2020
 Report Date: 2/24/2020

Metric Batch ID:

Metric Sample ID:

Harvest/Process Date: 2/1/2020
 Report ID: LS-200219-9
 Sample Plan ID: SP-200211-1-B
 Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Residual Solvents Quality Control Data

Solvents QC Analysis Date: 2/13/2020
 Solvents QC Batch ID: RES_021320A

Method: EPA 5021A
 Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
1,4-Dioxane	ND	50.0	870	1000	87.0	70 - 130	
2-Butanol	ND	250.0	896	1000	89.6	70 - 130	
2-Ethoxyethanol	ND	50.0	821	1000	82.1	70 - 130	
Acetone	ND	250.0	818	1000	81.8	70 - 130	
Acetonitrile	ND	50.0	894	1000	89.4	70 - 130	
Benzene	ND	2.0	20.3	20.0	101	70 - 130	
Butanes	ND	250.0	1400	2000	73.8	70 - 130	
Cumene	ND	50.0	925	1000	92.5	70 - 130	
Cyclohexane	ND	50.0	814	1000	81.4	70 - 130	
Ethyl Acetate	ND	250.0	872	1000	87.2	70 - 130	
Ethyl Ether	ND	250.0	794	1000	79.4	70 - 130	
Ethylene Glycol	ND	250.0	825	1000	82.5	70 - 130	
Ethylene Oxide	ND	50.0	813	1000	81.3	70 - 130	
Heptane	ND	250.0	828	1000	82.8	70 - 130	
Hexanes	ND	50.0	4060	5000	81.3	70 - 130	
Isopropanol (2-Propanol)	ND	50.0	891	1000	89.1	70 - 130	
Isopropyl Acetate	ND	250.0	895	1000	89.5	70 - 130	
Methanol	ND	250.0	850	1000	85.0	70 - 130	
Dichloromethane	ND	50.0	834	1000	83.4	70 - 130	
Pentanes	ND	250.0	2350	3000	78.3	70 - 130	
Propane	ND	250.0	597	1000	59.7	70 - 130	
Tetrahydrofuran	ND	50.0	882	1000	88.2	70 - 130	
Toluene	ND	50.0	845	1000	84.5	70 - 130	
Xylenes	ND	50.0	3650	4000	91.1	70 - 130	

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2535 N Ross Ave info@lightscale.com
 Portland, OR 97227 ORELAP #4112
 (503) 493-2635 OLCC #010-1003340DS44

20032A1

Sample Type: Hemp Extract
 Sample Date: 2/11/2020
 Analysis Date: 2/13/2020
 Report Date: 2/24/2020

Metric Batch ID:
 Metric Sample ID:

Harvest/Process Date: 2/1/2020
 Report ID: LS-200219-9
 Sample Plan ID: SP-200211-1-B
 Sample Procedure: 160721_LAB-
 SOP_SampleCollection-v007

Qualifier Flag Descriptions

J	Reported result is an estimate - the value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
U	The analyte was not detected in the sample at the estimated detection limit (EDL)
E	Exceeds calibration range
D	Dilution data - result was obtained from the analysis of a dilution
B	Analyte found in sample and associated blank
C	Co-eluting compound
R	Relative Percent Difference (RPD) outside control limits
NR	Analyte not reported because of problems in sample preparation or analysis
ND	Non-Detect
X	Results from reinjection/repeat/re-column data
EMC	Estimated maximum possible concentration - indicates that a peak is detected but did not meet the method required criteria
M	Manual integration
PS	Peaks split
HB	Control acceptance criteria are exceeded high and the associated sample is below the detection limit
LB	Control acceptance criteria are exceeded low and the associated sample exceeds the regulatory limit
ME	Marginal Exceedance
LR	Low Recovery Analyte
LOQ	Limit of Quantitation



Exact Scientific Services, Inc.

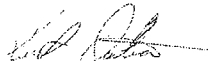
1355 Pacific Place
Suite 101
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Phone: (360) 733-1205
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Email: lab@exactscientific.com

Certificate of Analysis

Invoice Number: 20-01914
PO Number: 200210JMW01

Received Date: 2/11/2020

Approved By: 

Approved Date: 2/17/2020

Project Name: Production Samples

Lab #: 7159		Sample: 20032A1 (FSHE)			Sample Date: 2/10/2020	
Analyte	Results	Units	Detection Limit	Method	Analyst	Date Analyzed
Microbial Enumeration						
Aerobic Plate Count	<10	cfu/g	10	ESS_2.2.1	SMS	2/13/2020
Coliform	Negative	cfu/g	10	ESS_2.2.17	SMS	2/12/2020
E. coli	Negative	cfu/g	10	ESS_2.2.17	SMS	2/12/2020
Yeast	Negative	cfu/g	10	ESS_2.2.5	SMS	2/17/2020
Mold	Negative	cfu/g	10	ESS_2.2.5	SMS	2/17/2020
Heavy Metals						
Arsenic	<0.01	ppm	0.01	ESS_3.2.1.202 ICP-MS	MH	2/12/2020
Cadmium	<0.01	ppm	0.01	ESS_3.2.1.202 ICP-MS	MH	2/12/2020
Lead	0.016	ppm	0.01	ESS_3.2.1.202 ICP-MS	MH	2/12/2020
Mercury	<0.01	ppm	0.01	ESS_3.2.1.207 ICP-MS	MH	2/12/2020
General Chemistry						
Karl Fischer Water	0.14	%		ESS_3.3.5.208	AB	2/13/2020
Microbiology Pathogens						
Salmonella spp	Negative	per 25 grams		ESS_2.2.6	MM	2/12/2020

ND = Not detected above the listed detection limit

This report and its results only relate to the specific sample(s) tested as received, and is for exclusive use of the customer named above and shall not be reproduced except in full.