

August 17, 2020

QUICKSILVER SCIENTIFIC

Attn: Erin Bingham
 1376 Miners Drive Suite 101
 Lafayette, CO 80026

Order No. 514916
 Sample No. 1055162

SAMPLE INFORMATION

Description Full Spectrum Hemp Extract
Lot Number FSHO2005
Category (Type) Orally Consumed Concentrate (Tincture)
Received August 13, 2020

ANALYTICAL RESULTS

Analysis Pesticide Residue Screen ✔ Pass
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)
Method MF 21P030
Analysis Date August 13, 2020 to August 17, 2020

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Abamectin	0.04/0.10	ND	0.3	Pass
Acephate	0.04/0.10	ND	5.0	Pass
Acequinocyl	0.04/0.10	ND	4.0	Pass
Acetamiprid	0.04/0.10	ND	5.0	Pass
Aldicarb	0.04/0.10	ND	0.04	Pass
Azoxystrobin	0.04/0.10	ND	40.0	Pass
Bifenazate	0.04/0.10	ND	5.0	Pass
Bifenthrin	0.10/0.25	ND	0.5	Pass
Boscalid	0.04/0.10	ND	10.0	Pass
Captan	0.20/0.50	ND	5.0	Pass
Carbaryl	0.20/0.50	ND	0.5	Pass
Carbofuran	0.04/0.10	ND	0.04	Pass
Chlorantraniliprole	0.04/0.10	ND	40.0	Pass
Chlordane	0.04/0.10	ND	0.04	Pass
Chlorfenapyr	0.04/0.10	ND	0.04	Pass
Chlorpyrifos	0.04/0.10	ND	0.04	Pass
Clofentezine	0.04/0.10	ND	0.5	Pass
Coumaphos	0.04/0.10	ND	0.04	Pass
Cyfluthrin	0.20/0.50	ND	1.0	Pass
Cypermethrin	0.20/0.50	ND	1.0	Pass
Daminozide	0.04/0.10	ND	0.04	Pass
DDVP (Dichlorvos)	0.04/0.10	ND	0.04	Pass
Diazinon	0.04/0.10	ND	0.2	Pass
Dimethoate	0.04/0.10	ND	0.04	Pass
Dimethomorph	0.04/0.10	ND	20.0	Pass
Ethoprop(hos)	0.04/0.10	ND	0.04	Pass
Etofenprox	0.04/0.10	ND	0.04	Pass
Etoxazole	0.04/0.10	ND	1.5	Pass

If there are any questions with this report, please contact "compliance@anresco.com".

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Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Fenhexamid	0.04/0.10	ND	10.0	Pass
Fenoxycarb	0.04/0.10	ND	0.04	Pass
Fenpyroximate	0.04/0.10	ND	2.0	Pass
Fipronil	0.04/0.10	ND	0.04	Pass
Flonicamid	0.04/0.10	ND	2.0	Pass
Fludioxanil	0.04/0.10	ND	30.0	Pass
Hexythiazox	0.04/0.10	ND	2.0	Pass
Imazalil	0.04/0.10	ND	0.04	Pass
Imidacloprid	0.04/0.10	ND	3.0	Pass
Kresoxim Methyl	0.04/0.10	ND	1.0	Pass
Malathion	0.20/0.50	ND	5.0	Pass
Metalaxyl	0.04/0.10	ND	15.0	Pass
Methiocarb	0.04/0.10	ND	0.04	Pass
Methomyl	0.04/0.10	ND	0.1	Pass
Methyl parathion	0.04/0.10	ND	0.04	Pass
Mevinphos	0.04/0.10	ND	0.04	Pass
Myclobutanil	0.04/0.10	ND	9.0	Pass
Naled	0.04/0.10	ND	0.5	Pass
Oxamyl	0.20/0.50	ND	0.2	Pass
Paclobutrazol	0.04/0.10	ND	0.04	Pass
Pentachloronitrobenzene	0.04/0.10	ND	0.2	Pass
Permethrins	0.10/0.25	ND	20.0	Pass
Phosmet	0.04/0.10	ND	0.2	Pass
Piperonyl Butoxide	0.04/0.10	ND	8.0	Pass
Prallethrin	0.04/0.10	ND	0.4	Pass
Propiconazole	0.04/0.10	ND	20.0	Pass
Propoxur	0.04/0.10	ND	0.04	Pass
Pyrethrins	0.20/0.50	ND	1.0	Pass
Pyridaben	0.04/0.10	ND	3.0	Pass
Spinetoram	0.04/0.10	ND	3.0	Pass
Spinosad	0.04/0.10	ND	3.0	Pass
Spiromesifen	0.04/0.10	ND	12.0	Pass
Spirotetramat	0.04/0.10	ND	13.0	Pass
Spiroxamine	0.04/0.10	ND	0.04	Pass
Tebuconazole	0.04/0.10	ND	2.0	Pass
Thiacloprid	0.04/0.10	ND	0.04	Pass
Thiamethoxam	0.35/1.00	ND	4.5	Pass
Trifloxystrobin	0.04/0.10	ND	30.0	Pass

If there are any questions with this report, please contact "compliance@anresco.com".

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ANALYTICAL RESULTS

Analysis Mycotoxin Screen ✔ Pass
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)
Method MF 21P030
Analysis Date August 13, 2020 to August 17, 2020

Analyte	LOD / LOQ (µg/kg)	Findings (µg/kg)	Limit (µg/kg)	Status
Aflatoxin B1	1/5	ND	-	-
Aflatoxin B2	1/5	ND	-	-
Aflatoxin G1	1/5	ND	-	-
Aflatoxin G2	1/5	ND	-	-
Total Aflatoxins	10/20	ND	20	Pass
Ochratoxin A	10/20	ND	20	Pass

Reported by
Anresco, Inc.

ND = None Detected
 <LOQ = Below Limit of Quantitation
 <LOD = Below Limit of Detection



Eric Tam
Senior Chemist

August 17, 2020

August 17, 2020

QUICKSILVER SCIENTIFIC

Attn: Erin Bingham
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 Lafayette, CO 80026

Order No. 514916
 Sample No. 1055162

SAMPLE INFORMATION

Description Full Spectrum Hemp Extract
Lot Number FSHO2005
Category (Type) Orally Consumed Concentrate (Tincture)
Received August 13, 2020

ANALYTICAL RESULTS

Analysis Residual Solvent Screen ✖ Fail
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method USP OVI<467>
Analysis Date August 13, 2020 to August 17, 2020

Analyte	LOD / LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
1,2-Dichloroethane	0.10/1.00	ND	1.0	Pass
Acetone	11/150	ND	5000	Pass
Acetonitrile	1/12	ND	410	Pass
Benzene	0.10/1.00	ND	1.0	Pass
n-Butane	130/400	ND	5000	Pass
Chloroform	0.10/1.00	ND	1.0	Pass
Ethanol	13/200	9650	5000	Fail
Ethyl Acetate	5/80	ND	5000	Pass
Ethyl Ether	17/50	ND	5000	Pass
Ethylene Oxide	0.50/1.00	ND	1.0	Pass
n-Heptane	15/100	ND	5000	Pass
n-Hexane	2/10	ND	290	Pass
Isopropyl Alcohol	5/100	ND	5000	Pass
Methanol	3/50	<LOQ	3000	Pass
Methylene Chloride	0.50/1.00	ND	1.0	Pass
n-Pentane	26/150	ND	5000	Pass
Propane	170/510	ND	5000	Pass
Toluene	2/30	<LOQ	890	Pass
Total Xylenes	5/90	ND	2170	Pass
Trichloroethylene	0.10/1.00	ND	1.0	Pass

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 <LOD = Below Limit of Detection




Jordean Vargas
 Analyst

August 17, 2020

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Sample No. 1055162

SAMPLE INFORMATION

Description Full Spectrum Hemp Extract
Lot Number FSHO2005
Category (Type) Orally Consumed Concentrate (Tincture)
Received August 13, 2020

ANALYTICAL RESULTS

Analysis Terpene Profile
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method American Herbal Pharmacopoeia
Analysis Date August 13, 2020 to August 17, 2020

Terpene	mg/g	%	Status
α-Pinene	0.121	0.012	-
Isopulegol	ND	ND	-
Camphene	ND	ND	-
Menthol	ND	ND	-
β-Myrcene	0.202	0.020	-
(-)-Borneol	ND	ND	-
β-Pinene	0.514	0.051	-
Terpineol	<LOQ	<LOQ	-
δ-3-Carene	<LOQ	<LOQ	-
Citronellol	ND	ND	-
Limonene	6.560	0.656	-
Geraniol	ND	ND	-
α-Terpinene	<LOQ	<LOQ	-
β-Caryophyllene	3.180	0.318	-
trans-beta-Ocimene	<LOQ	<LOQ	-
α-Humulene	0.179	0.018	-
cis-beta-Ocimene	ND	ND	-
cis-Nerolidol	ND	ND	-
p-Cymene	ND	ND	-
trans-Nerolidol	<LOQ	<LOQ	-
Eucalyptol	ND	ND	-
Guaiol	<LOQ	<LOQ	-
γ-Terpinene	0.208	0.021	-
Caryophyllene Oxide	0.023	0.002	-
Terpinolene	<LOQ	<LOQ	-
α-Bisabolol	0.064	0.006	-
Linalool	0.021	0.002	-
Eudesmol	0.030	0.003	-
Total Terpenes	11.102	1.110	-

Reported by
Anresco, Inc.




Kaiyin Chen
 Analyst

August 17, 2020

Limit of Detection: 0.0004 mg/g
 Limit of Quantitation: 0.0013 mg/g
 ND = None Detected
 <LOQ = Below Limit of Quantitation
 <LOD = Below Limit of Detection

If there are any questions with this report, please contact "compliance@anresco.com".

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1376 Miners Dr., Ste. 101, Lafayette, CO 80026
P: 303-531-0861 E: support@quicksilverscientific.com

PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

Lot Number:	FSHO2005/1
Manufacturing Date:	8/2020
Bottle Size:	50 mL
Storage Recommendation:	Room Temperature
Shelf Life / EXP Date:	EXP:08/2022

Final Product Tests

Test Performed	Method	Specification	Result	Pass/Fail
Aerobic Plate Count	USP2021	$\leq 10^5$ cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Coliforms	AOAC 991.14	≤ 100 cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
<i>E. Coli</i>	USP2022	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
<i>Staph aureus</i>	USP2022	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Yeast/Mold	USP2021	≤ 1000 cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Salmonella	USP2022	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
<i>Pseudo. aeruginosa</i>	mUSP62	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Arsenic	ICPMS	≤ 2 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cadmium	ICPMS	≤ 2 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Lead	ICPMS	≤ 1 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Mercury	ICPMS	≤ 1 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Liposome size	DLS	10 nm– 50 nm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
THC	LC/MS/MS or HPLC	$\leq 0.3\%$	0.04%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabidiol	LC/MS/MS or HPLC	≥ 16 mg/2 mL	18.8mg/2ml	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBDV	LC/MS/MS or HPLC	For Information Only	0.009%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

Test Performed	Method	Specification	Result	Pass/Fail
CBDA	LC/MS/MS or HPLC	For Information Only	Not detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBG	LC/MS/MS or HPLC	For Information Only	0.023%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBN	LC/MS/MS or HPLC	For Information Only	0.001%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBC	LC/MS/MS or HPLC	For Information Only	0.024%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Pinene	GC/MS or GC-FID	For Information Only	0.012%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Isopulegol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Camphene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Menthol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Myrcene	GC/MS or GC-FID	For Information Only	0.020%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
(-)-Borneol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Pinene	GC/MS or GC-FID	For Information Only	0.051%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpineol	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
δ -3-Carene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Citronellol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Limonene	GC/MS or GC-FID	For Information Only	0.656%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Geraniol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Terpinene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Caryophyllene	GC/MS or GC-FID	For Information Only	0.318%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-beta-Ocimene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Humulene	GC/MS or GC-FID	For Information Only	0.018%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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P: 303-531-0861 E: support@quicksilverscientific.com

PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			
Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		

Test Performed	Method	Specification	Result	Pass/Fail
cis-beta-Ocimene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
cis-Nerolidol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
p-Cymene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-Nerolidol	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eucalyptol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Guaial	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
γ -Terpinene	GC/MS or GC-FID	For Information Only	0.021%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Caryophyllene Oxide	GC/MS or GC-FID	For Information Only	0.002%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpinolene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Bisabolol	GC/MS or GC-FID	For Information Only	0.006%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Linalool	GC/MS or GC-FID	For Information Only	0.002%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eudesmol	GC/MS or GC-FID	For Information Only	0.003%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

*100% label claim at the time of manufacture

**Solvent and Pesticide testing performed annually



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PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date
Product Code#	QSFSHO01		04/29/2020
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

NOTES:

Total Batch Size: 386 L

Bottles Produced: 3475

Product Description: Liposomal hemp tincture. 16mg cannabinoids per serving.

Ingredient	Manufacturer	Lot Number
Full Spectrum Hemp Extract	CBD Universe	200781
Full Spectrum Hemp Extract	CBD Universe	200671
Full Spectrum Hemp Extract		

Released:

Quality Assurance

Janet Boatley

Date: 08/24/2020



If you liked our service, please tell a friend. If you didn't, please tell us!

40 West Louise Ave., Salt Lake City, UT 84115

Phone: (801) 485-1800 Fax: (801) 484-9211

Email: utlab@advancedlabsinc.com

FDA Registration #14353128308

Test Certificate

Description: Nanoemulsified Full Spectrum

Sample ID:

Lot No: FSHO2005/1

Location:

Received: 8/17/2020

Completed: 8/24/2020

Client: Quicksilver Scientific

1376 Miners Drive

Suite 103

Lafayette, CO 80026

Lab No: 201571-01

Analysis	Result	Per Unit	Specifications	Method
Mercury	<0.001	ppm	Report	ICP-MS USP <730>
Lead	0.004	ppm	Report	ICP-MS USP <730>
Arsenic	<0.001	ppm	Report	ICP-MS USP <730>
Cadmium	<0.001	ppm	Report	ICP-MS USP <730>

THESE RESULTS APPLY ONLY TO THE SAMPLE SUBMITTED AND NOT TO THE PRODUCT FROM WHICH IT WAS TAKEN. THESE RESULTS ARE PROVIDED ONLY FOR THE BENEFIT OF CLIENT, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED SOLELY TO CLIENT IN ADVANCED LABORATORIES' TERMS OF SERVICE.

THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM ADVANCED LABORATORIES.

Results Approved By:

Kristina Nolf - Quality Technician

Dated:

8/24/2020

Printed: 8/24/2020 1:03:15 PM



Test Certificate

Description: Nanoemulsified Full Spectrum

Sample ID:

Lot No: FSHO2005/1

Location:

Received: 8/17/2020

Completed: 8/21/2020

Client: Quicksilver Scientific

1376 Miners Drive

Suite 103

Lafayette, CO 80026

Lab No: 201570-01


Analysis	Result	Per Unit	Specifications	Method
Total Aerobic Microbial Count	<10	CFU/g	Report	USP <2021>
Coliform	<10	CFU/g	Report	AOAC 991.14
E Coli	Absent	per 10 grams	Report	USP <2022>
Salmonella	Absent	per 10 grams	Report	USP <2022>
Staphylococcus aureus	Absent	per 10 grams	Report	USP <2022>
Total Yeast & Mold	<10	CFU/g	Report	AOAC 2014.05
Pseudomonas	Absent	per 10 grams	Report	USP <62>

*For informational purposes only.

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Results Approved By:


Kristina Nolf - Quality Technician

Dated:

8/21/2020

Printed: 8/21/2020 4:56:50 PM





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PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

Lot Number:	FSHO2005/2
Manufacturing Date:	08/2020
Bottle Size:	50 mL
Storage Recommendation:	Room Temperature
Shelf Life / EXP Date:	EXP:08/2022

Final Product Tests

Test Performed	Method	Specification	Result	Pass/Fail
Aerobic Plate Count	USP2021	$\leq 10^5$ cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Coliforms	AOAC 991.14	≤ 100 cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
E. Coli	USP2022	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Staph aureus	USP2022	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Yeast/Mold	USP2021	≤ 1000 cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Salmonella	USP2022	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Pseudo. aeruginosa	mUSP62	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Arsenic	ICPMS	≤ 2 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cadmium	ICPMS	≤ 2 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Lead	ICPMS	≤ 1 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Mercury	ICPMS	≤ 1 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Liposome size	DLS	10 nm– 50 nm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
THC	LC/MS/MS or HPLC	$\leq 0.3\%$	0.04%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabidiol	LC/MS/MS or HPLC	≥ 16 mg/2 mL	18.8mg/2ml	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBDV	LC/MS/MS or HPLC	For Information Only	0.009%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

Test Performed	Method	Specification	Result	Pass/Fail
CBDA	LC/MS/MS or HPLC	For Information Only	Not detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBG	LC/MS/MS or HPLC	For Information Only	0.023%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBN	LC/MS/MS or HPLC	For Information Only	0.001%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBC	LC/MS/MS or HPLC	For Information Only	0.024%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Pinene	GC/MS or GC-FID	For Information Only	0.012%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Isopulegol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Camphene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Menthol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Myrcene	GC/MS or GC-FID	For Information Only	0.020%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
(-)-Borneol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Pinene	GC/MS or GC-FID	For Information Only	0.051%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpineol	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
δ -3-Carene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Citronellol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Limonene	GC/MS or GC-FID	For Information Only	0.656%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Geraniol	GC/MS or GC-FID	For Information Only	Not detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Terpinene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Caryophyllene	GC/MS or GC-FID	For Information Only	0.318%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-beta-Ocimene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Humulene	GC/MS or GC-FID	For Information Only	0.018%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



1376 Miners Dr., Ste. 101, Lafayette, CO 80026
P: 303-531-0861 E: support@quicksilverscientific.com

PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

Test Performed	Method	Specification	Result	Pass/Fail
cis-beta-Ocimene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
cis-Nerolidol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
p-Cymene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-Nerolidol	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eucalyptol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Guaiol	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
γ -Terpinene	GC/MS or GC-FID	For Information Only	0.021%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Caryophyllene Oxide	GC/MS or GC-FID	For Information Only	0.002%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpinolene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Bisabolol	GC/MS or GC-FID	For Information Only	0.006%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Linalool	GC/MS or GC-FID	For Information Only	0.002%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eudesmol	GC/MS or GC-FID	For Information Only	0.003%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

*100% label claim at the time of manufacture

**Solvent and Pesticide testing performed annually



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PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

NOTES:

Total Batch Size: 386 L

Bottles Produced: 1007

Product Description: Liposomal hemp tincture. 16mg cannabinoids per serving.

Ingredient	Manufacturer	Lot Number
Full Spectrum Hemp Extract	CBD Universe	200781
Full Spectrum Hemp Extract	CBD Universe	200671
Full Spectrum Hemp Extract		

Released:

Quality Assurance:

Date:

09/17/2020



If you liked our service, please tell a friend. If you didn't, please tell us!

40 West Louise Ave., Salt Lake City, UT 84115

Phone: (801) 485-1800 Fax: (801) 484-9211

Email: utlab@advancedlabsinc.com

FDA Registration #14353128308

Test Certificate

Description: Nanoemulsified Full Spectrum

Sample ID:

Lot No: FSHO2005/2

Location:

Received: 9/4/2020

Completed: 9/15/2020

Client: Quicksilver Scientific

1376 Miners Drive

Suite 103

Lafayette, CO 80026

Lab No: 202722-02

Analysis	Result	Per Unit	Specifications	Method
Mercury	<0.001	ppm	Report	ICP-MS USP <730>
Lead	0.004	ppm	Report	ICP-MS USP <730>
Arsenic	<0.001	ppm	Report	ICP-MS USP <730>
Cadmium	<0.001	ppm	Report	ICP-MS USP <730>

THESE RESULTS APPLY ONLY TO THE SAMPLE SUBMITTED AND NOT TO THE PRODUCT FROM WHICH IT WAS TAKEN. THESE RESULTS ARE PROVIDED ONLY FOR THE BENEFIT OF CLIENT, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXCEPT FOR THE EXPRESS LIMITED WARRANTY PROVIDED SOLELY TO CLIENT IN ADVANCED LABORATORIES' TERMS OF SERVICE.

THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL FROM ADVANCED LABORATORIES.

Results Approved By:

Kristina Noll - Quality Technician

Dated:

9/15/2020

Printed: 9/15/2020 5:36:08 PM





If you liked our service, please tell a friend. If you didn't, please tell us!

40 West Louise Ave., Salt Lake City, UT 84115

Phone: (801) 485-1800 Fax: (801) 484-9211

Email: utlab@advancedlabsinc.com

FDA Registration #14353128308

Test Certificate

Description: Nanoemulsified Full Spectrum

Sample ID:

Lot No: FSHO2005/2

Location:

Received: 9/4/2020

Completed: 9/9/2020

Client: Quicksilver Scientific

1376 Miners Drive

Suite 103

Lafayette, CO 80026

Lab No: 202721-02

Analysis	Result	Per Unit	Specifications	Method
Total Aerobic Microbial Count	<10	CFU/g	Report	USP <2021>
Coliform	<10	CFU/g	Report	AOAC 991.14
E Coli	absent	per 10 grams	Report	USP <2022>
Salmonella	absent	per 10 grams	Report	USP <2022>
Staphylococcus aureus	absent	per 10 grams	Report	USP <2022>
Total Yeast & Mold	<10	CFU/g	Report	USP <2021>
Pseudomonas	absent	per 10 grams	Report	USP <62>

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Results Approved By:

Kristina Nolf - Quality Technician

Dated:

9/9/2020

Printed: 9/9/2020 5:43:32 PM





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P: 303-531-0861 E: support@quicksilverscientific.com

PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

Lot Number:	FSHO205/3
Manufacturing Date:	08/2020
Bottle Size:	50 mL
Storage Recommendation:	Room Temperature
Shelf Life / EXP Date:	EXP:08/2022

Final Product Tests

Test Performed	Method	Specification	Result	Pass/Fail
Aerobic Plate Count	USP2021	$\leq 10^5$ cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Coliforms	AOAC 991.14	≤ 100 cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
E. Coli	USP2022	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Staph aureus	USP2022	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Yeast/Mold	USP2021	≤ 1000 cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Salmonella	USP2022	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Pseudo. aeruginosa	mUSP62	Absent	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Arsenic	ICPMS	≤ 2 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cadmium	ICPMS	≤ 2 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Lead	ICPMS	≤ 1 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Mercury	ICPMS	≤ 1 ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Liposome size	DLS	10 nm– 50 nm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
THC	LC/MS/MS or HPLC	$\leq 0.3\%$	0.04%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabidiol	LC/MS/MS or HPLC	≥ 16 mg/2 mL	18.8 mg/2ml	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBDV	LC/MS/MS or HPLC	For Information Only	0.009%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

Test Performed	Method	Specification	Result	Pass/Fail
CBDA	LC/MS/MS or HPLC	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBG	LC/MS/MS or HPLC	For Information Only	0.023%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBN	LC/MS/MS or HPLC	For Information Only	0.001%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBC	LC/MS/MS or HPLC	For Information Only	0.024%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Pinene	GC/MS or GC-FID	For Information Only	0.012%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Isopulegol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Camphene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Menthol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Myrcene	GC/MS or GC-FID	For Information Only	0.020%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
(-)-Borneol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Pinene	GC/MS or GC-FID	For Information Only	0.051%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpineol	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
δ -3-Carene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Citronellol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Limonene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Geraniol	GC/MS or GC-FID	For Information Only	0.318%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Terpinene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Caryophyllene	GC/MS or GC-FID	For Information Only	0.018%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-beta-Ocimene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Humulene	GC/MS or GC-FID	For Information Only	0.018%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

Test Performed	Method	Specification	Result	Pass/Fail
cis-beta-Ocimene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
cis-Nerolidol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
p-Cymene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-Nerolidol	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eucalyptol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Guaiol	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
γ -Terpinene	GC/MS or GC-FID	For Information Only	0.021%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Caryophyllene Oxide	GC/MS or GC-FID	For Information Only	0.002%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpinolene	GC/MS or GC-FID	For Information Only	<LOQ%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Bisabolol	GC/MS or GC-FID	For Information Only	0.006%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Linalool	GC/MS or GC-FID	For Information Only	0.002%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eudesmol	GC/MS or GC-FID	For Information Only	0.003%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail

*100% label claim at the time of manufacture

**Solvent and Pesticide testing performed annually



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PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 6	Effective Date 04/29/2020
Product Code#	QSFSHO01		
NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

NOTES:

Total Batch Size: 386 L

Bottles Produced: 1007

Product Description: Liposomal hemp tincture. 16mg cannabinoids per serving.

Ingredient	Manufacturer	Lot Number
Full Spectrum Hemp Extract	CBD Universe	200781
Full Spectrum Hemp Extract	CBD Universe	200671
Full Spectrum Hemp Extract		

Released:

Quality Assurance:

Janet Boateng

Date:

11/5/2020

Test Certificate

Description: Nanoemulsified Full Spectrum

Sample ID:

Lot No: FSH02005/3

Location:

Received: 10/29/2020

Completed: 11/5/2020

Client: Quicksilver Scientific

1376 Miners Drive

Suite 103

Lafayette, CO 80026


Lab No: 205671-02

Analysis	Result	Per Unit	Specifications	Method
Total Aerobic Microbial Count	<10	CFU/g	Report	USP <2021>
Coliform	<10	CFU/g	Report	AOAC 991.14
E Coli	Absent	per 10 grams	Report	USP <2022>
Salmonella	Absent	per 10 grams	Report	USP <2022>
Staphylococcus aureus	Absent	per 10 grams	Report	USP <2022>
Total Yeast & Mold	<10	CFU/g	Report	USP <2021>
Pseudomonas	Absent	per 10 grams	Report	USP <62>

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Results Approved By:


Kristina Noll - Quality Technician

Dated:

11/5/2020

Printed: 11/5/2020 11:37:47 AM

