



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:	FSHO2101/1
Manufacturing Date:	03/2021
Bottle Size:	50 mL
Storage Recommendation:	Room Temperature
Shelf Life / EXP Date:	03/2023

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	$\leq 0.3\%$	0.035%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabidiol	LC/MS/MS or HPLC	≥ 16 mg/2 mL	23.23 mg/2 mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBDV	LC/MS/MS or HPLC	For Information Only	0.0810 mg/ml	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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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	0.1647 mg/mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBN	LC/MS/MS or HPLC	For Information Only	0.0106 mg/mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBC	LC/MS/MS or HPLC	For Information Only	0.2937 mg/mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Pinene	GC/MS or GC-FID	For Information Only	0.08 mg/g	<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	0.11 mg/g	<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	0.49 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpineol	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
δ -3-Carene	GC/MS or GC-FID	For Information Only	Not Detected	<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	6.11 mg/g	<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	Below limit of Quantitation	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Caryophyllene	GC/MS or GC-FID	For Information Only	2.72mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-beta-Ocimene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Humulene	GC/MS or GC-FID	For Information Only	0.20 mg/g	<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
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	Not Detected	<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	0.01 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
γ-Terpinene	GC/MS or GC-FID	For Information Only	0.21 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Caryophyllene Oxide	GC/MS or GC-FID	For Information Only	0.02mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpinolene	GC/MS or GC-FID	For Information Only	Not Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α-Bisabolol	GC/MS or GC-FID	For Information Only	0.05 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Linalool	GC/MS or GC-FID	For Information Only	Below limit of Quantitation	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eudesmol	GC/MS or GC-FID	For Information Only	0.02 mg/g	<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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NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400			

NOTES:

Total Batch Size: 195L

Bottles Produced: 3663 bottles

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	201068
Full Spectrum Hemp Extract		

Released:

Quality Assurance:

Melissa M. Wood

Date:

03/16/21



40 West Louise Ave., Salt Lake City, UT 84115
 Phone: (801) 485-1800 Fax: (801) 484-9211
 Email: utlab@advancedlabsinc.com
FDA Registration #14353128308

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

Test Certificate

Description: Full Spectrum Hemp Extract
 Sample ID:
 Lot No: FSHO2101/1
 Location:
 Received: 3/8/2021
 Completed: 3/15/2021

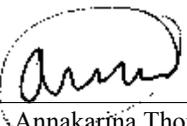
Client: Quicksilver Scientific
 1376 Miners Drive
 Suite 103
 Lafayette, CO 80026

Lab No: 212016-06

Analysis	Result	Per Unit	Specifications	Method
Mercury	0.001	ppm	Report	ICP-MS USP <730>
Lead	0.005	ppm	Report	ICP-MS USP <730>
Arsenic	0.006	ppm	Report	ICP-MS USP <730>
Cadmium	<0.001	ppm	Report	ICP-MS USP <730>
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>

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: 
 Annakarina Thornock-Quality Tech

Dated: 3/15/2021

Printed: 3/15/2021 6:11:40 PM



March 10, 2021

QUICKSILVER SCIENTIFIC

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

Order No. 521097
Sample No. 1075641

SAMPLE INFORMATION

Description Full Spectrum Hemp Oil
Lot Number FSHO2101/1
Category Non-Inhalable Orally Consumed Concentrate
Received March 08, 2021

ANALYTICAL RESULTS

Analysis Pesticides Screen ✔ Pass
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)
Method MF 21P030
Analysis Date March 08, 2021 to March 10, 2021

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	0.20/0.50	ND	0.5	Pass
Boscalid	0.04/0.10	ND	10.0	Pass
Captan	0.25/0.70	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	0.70/2.00	ND	1.0	Pass
Cypermethrin	0.35/1.00	ND	1.0	Pass
Daminozide	0.04/0.10	ND	0.04	Pass
DDVP (Dichlorovous)	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
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

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

Analyte	LOD/LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
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	0.04/0.10	ND	0.2	Pass
Paclobutrazol	0.04/0.10	ND	0.04	Pass
Pentachloronitrobenzene	0.04/0.10	ND	0.2	Pass
Permethrins	0.20/0.50	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

Reported by
Anresco, Inc.

ND = None Detected



Eric Tam
Senior Chemist

March 10, 2021

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

ANALYTICAL RESULTS

Analysis Mycotoxins Screen ✔ Pass
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)
Method MF 21P030
Analysis Date March 08, 2021 to March 10, 2021

Analyte	LOD/LOQ (µg/kg)	Findings (µg/kg)	Limit (µg/kg)	Status
Aflatoxin B1	1/5	ND	-	-
Afalatoxin 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



Eric Tam
Senior Chemist

March 10, 2021

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

March 09, 2021

QUICKSILVER SCIENTIFIC

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

Order No. 521097
 Sample No. 1075641

SAMPLE INFORMATION

Description Full Spectrum Hemp Oil
Lot Number FSHO2101/1
Category Non-Inhalable Orally Consumed Concentrate
Received March 08, 2021

ANALYTICAL RESULTS

Analysis Terpene Profile
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method American Herbal Pharmacopoeia
Analysis Date March 08, 2021 to March 09, 2021

Terpene	mg/g	%
α-Pinene	0.08	0.008
Isopulegol	ND	ND
Camphene	ND	ND
Menthol	ND	ND
β-Myrcene	0.11	0.011
(-)-Borneol	ND	ND
β-Pinene	0.49	0.049
Terpineol	ND	ND
δ-3-Carene	ND	ND
Citronellol	ND	ND
Limonene	6.11	0.611
Geraniol	ND	ND
α-Terpinene	BLOQ	BLOQ
β-Caryophyllene	2.72	0.272
trans-beta-Ocimene	ND	ND
α-Humulene	0.20	0.020
cis-beta-Ocimene	ND	ND
cis-Nerolidol	ND	ND
p-Cymene	ND	ND
trans-Nerolidol	ND	ND
Eucalyptol	ND	ND
Guaiol	0.01	0.001
γ-Terpinene	0.21	0.021
Caryophyllene Oxide	0.02	0.002
Terpinolene	ND	ND
α-Bisabolol	0.05	0.005
Linalool	BLOQ	BLOQ
Eudesmol	0.02	0.002
Total Terpenes	10.00	1.000

Reported by
Anresco, Inc.




Kaiyin Chen
 Analyst II

March 09, 2021

Limit of Detection: 0.004 mg/g
 Limit of Quantitation: 0.013 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".

March 09, 2021

QUICKSILVER SCIENTIFIC

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

Order No. 521097
Sample No. 1075641

SAMPLE INFORMATION

Description Full Spectrum Hemp Oil
Lot Number FSHO2101/1
Category Non-Inhalable Orally Consumed Concentrate
Received March 08, 2021

ANALYTICAL RESULTS

Analysis Residual Solvent Screen ❌ **Fail**
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method USP OVI<467>
Analysis Date March 08, 2021 to March 09, 2021

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
1,2-Dichloroethane	0.1/1	ND	1	Pass
Acetone	50/150	ND	5000	Pass
Acetonitrile	4/12	ND	410	Pass
Benzene	0.1/1	ND	1	Pass
n-Butane	48/160	ND	5000	Pass
Chloroform	0.1/1	ND	1	Pass
Ethanol	67/200	115430.00	5000	Fail
Ethyl acetate	27/80	ND	5000	Pass
Ethyl ether	17/50	ND	5000	Pass
Ethylene oxide	0.5/1	ND	1	Pass
n-Heptane	1/4	ND	5000	Pass
n-Hexane	2/10	ND	290	Pass
Isopropyl alcohol	33/100	ND	5000	Pass
Methanol	50/150	ND	3000	Pass
Methylene chloride	0.5/1	ND	1	Pass
n-Pentane	2/6	ND	5000	Pass
Propane	10/33	ND	5000	Pass
Toluene	10/30	ND	890	Pass
Total xylenes (ortho-, meta-, para-)	30/90	ND	2170	Pass
Trichloroethylene	0.1/1	ND	1	Pass

Reported by
Anresco, Inc.

ND = None Detected



Ginzhu Fung Guan
Analyst

March 09, 2021

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

March 10, 2021

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

Order No. 521097
 Sample No. 1075641

SAMPLE INFORMATION

Description Full Spectrum Hemp Oil
Lot Number FSHO2101/1
Category Non-Inhalable Orally Consumed Concentrate
Received March 08, 2021

ANALYTICAL RESULTS

Analysis Cannabinoid Profile
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)
Method MF12D012
Analysis Date March 08, 2021 to March 10, 2021

Cannabinoid	mg/g	%	mg/ml
Δ8-THC	ND	ND	ND
Δ9-THC	0.3466	0.03466	0.3636
Δ9-THCA	ND	ND	ND
THCV	0.0049	0.00049	0.0052
THCVA	ND	ND	ND
CBD	10.1957	1.01957	10.6953
CBDA	ND	ND	ND
CBC	0.2800	0.02800	0.2937
CBCA	ND	ND	ND
CBDV	0.0772	0.00772	0.0810
CBG	0.1570	0.01570	0.1647
CBGA	ND	ND	ND
CBN	0.0101	0.00101	0.0106
Total THC	0.3466	0.03466	0.3636
Total CBD	10.1957	1.01957	10.6953
Total Cannabinoids	11.0715	1.10715	11.6140
Total Active Cannabinoids	11.0715	1.10715	11.6140
g/ml Conversion Factor	1.049		

Reported by
Anresco, Inc.




Derek Moy
 Senior Analyst

March 10, 2021

Limit of Detection: 0.0008 mg/g
 Limit of Quantitation: 0.0025 mg/g
 ND = None Detected
 <LOQ = Below Limit of Quantitation
 <LOD = Below Limit of Detection

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