



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:	FSHO2102/1
Manufacturing Date:	04/2021
Bottle Size:	50 mL
Storage Recommendation:	Room Temperature
Shelf Life / EXP Date:	04/2023

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	$\leq 0.3\%$	0.568	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabidiol	LC/MS/MS or HPLC	≥ 16 mg/2 mL	27.112mg/2mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBDV	LC/MS/MS or HPLC	For Information Only	0.051mg/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	0.192 mg/mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBN	LC/MS/MS or HPLC	For Information Only	0.010mg/mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBC	LC/MS/MS or HPLC	For Information Only	1.530mg/mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Pinene	GC/MS or GC-FID	For Information Only	0.07mg/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	0.06mg/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	0.47mg/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	Below limit of detection	<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	5.89mg/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 detection	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Caryophyllene	GC/MS or GC-FID	For Information Only	2.73mg/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	0.18mg/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	Below limit of detection	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
γ -Terpinene	GC/MS or GC-FID	For Information Only	0.19 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	0.05mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Linalool	GC/MS or GC-FID	For Information Only	0.01mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eudesmol	GC/MS or GC-FID	For Information Only	Not Detected	<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: 194L

Bottles Produced: 3777

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

Ingredient	Manufacturer	Lot Number
Full Spectrum Hemp Extract	CBD Universe	2100392
Full Spectrum Hemp Extract		
Full Spectrum Hemp Extract		NA MM 5/10/21

Released:

Quality Assurance: *Maddyn Morsling* Date: 5/10/21

May 07, 2021

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

Order No. 523226
 Sample No. 1082116

SAMPLE INFORMATION

Description Full Spectrum Hemp Extract
Lot Number FSHO2102/1
Category (Type) Non-Inhalable Orally Consumed Concentrate (Tincture)
Received May 05, 2021

ANALYTICAL RESULTS

Analysis Terpene Profile
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method American Herbal Pharmacopoeia
Analysis Date May 05, 2021 to May 07, 2021

Terpene	mg/g	%
α-Pinene	0.07	0.007
Isopulegol	ND	ND
Camphene	ND	ND
Menthol	ND	ND
β-Myrcene	0.06	0.006
(-)-Borneol	ND	ND
β-Pinene	0.47	0.047
Terpineol	ND	ND
δ-3-Carene	BLOQ	BLOQ
Citronellol	ND	ND
Limonene	5.89	0.589
Geraniol	ND	ND
α-Terpinene	BLOQ	BLOQ
β-Caryophyllene	2.73	0.273
trans-beta-Ocimene	ND	ND
α-Humulene	0.18	0.018
cis-beta-Ocimene	ND	ND
cis-Nerolidol	ND	ND
p-Cymene	ND	ND
trans-Nerolidol	ND	ND
Eucalyptol	ND	ND
Guaiol	BLOQ	BLOQ
γ-Terpinene	0.19	0.019
Caryophyllene Oxide	ND	0.002
Terpinolene	ND	ND
α-Bisabolol	0.05	0.005
Linalool	0.01	0.002
Eudesmol	ND	ND
Total Terpenes	9.66	0.966

Reported by
Anresco, Inc.




Ginzhu Fung Guan
 Analyst

May 07, 2021

Limit of Detection: 0.004 %
 Limit of Quantitation: 0.013 %
 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".

April 28, 2021

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

Order No. 522880
Sample No. 1081008

SAMPLE INFORMATION

Description Full Spectrum Hemp Oil
Lot Number FSHO2102/1
Received April 26, 2021

ANALYTICAL RESULTS

Analysis Date April 26, 2021 to April 28, 2021

Findings	Analysis	Results	Method
	Standard Plate Count	<10 cfu/g	FDA BAM
	Yeast	<10 cfu/g	AOAC 2014.05
	Mold	<10 cfu/g	AOAC 2014.05
	Coliforms	<10 cfu/g	FDA BAM - ECC AGAR
	Escherichia coli	<10 cfu/g	FDA BAM - ECC AGAR
	Pseudomonas	<10 cfu/g	CMMEF
	Salmonella	Negative /25g	AOAC 2016.01
	Staphylococcus aureus	<10 cfu/g	AOAC 2003.07

Reported by
Anresco, Inc.


Allen Zhu
Analyst



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

page 1 of 1

April 29, 2021

QUICKSILVER SCIENTIFIC

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

Order No. 522880
Sample No. 1081008

SAMPLE INFORMATION

Description Full Spectrum Hemp Oil
Lot Number FSHO2102/1
Category (Type) Non-Inhalable Orally Consumed Concentrate (Tincture)
Received April 26, 2021

ANALYTICAL RESULTS

Analysis Heavy Metals
Instrument Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
Method MF 24E020
Analysis Date April 26, 2021 to April 29, 2021

Analyte	LOD/LOQ (µg/g)	Findings (µg/g)	Limit (µg/g)	Status
Arsenic	0.02/0.05	ND	1.5	Pass
Cadmium	0.02/0.05	ND	0.5	Pass
Mercury	0.02/0.05	ND	3	Pass
Lead	0.02/0.05	ND	0.5	Pass

Reported by
Anresco, Inc.

ND = None Detected


Eric Tam
Senior Chemist

April 29, 2021

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

April 28, 2021

QUICKSILVER SCIENTIFIC

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

Order No. 522880
Sample No. 1081008

SAMPLE INFORMATION

Description Full Spectrum Hemp Oil
Lot Number FSHO2102/1
Category (Type) Non-Inhalable Orally Consumed Concentrate (Tincture)
Received April 26, 2021

ANALYTICAL RESULTS

Analysis Mycotoxins
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)
Analysis Date April 26, 2021 to April 28, 2021

Analyte	LOD/LOQ (ppb)	Findings (ppb)	Limit (ppb)	Status
Aflatoxin B1	2/5	ND	-	-
Aflatoxin B2	2/5	ND	-	-
Aflatoxin G1	2/5	ND	-	-
Aflatoxin G2	2/5	ND	-	-
Total Aflatoxins	8/20	ND	20	Pass
Ochratoxin A	6/18	ND	20	Pass

Reported by
Anresco, Inc.

ND = None Detected



Eric Tam
Senior Chemist

April 28, 2021

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April 28, 2021

QUICKSILVER SCIENTIFIC

Attn: Erin Bingham
 1376 Miners Drive Suite 101
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Order No. 522880
 Sample No. 1081008

SAMPLE INFORMATION

Description Full Spectrum Hemp Oil
Lot Number FSHO2102/1
Category (Type) Non-Inhalable Orally Consumed Concentrate (Tincture)
Received April 26, 2021

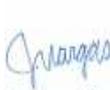
ANALYTICAL RESULTS

Analysis Residual Solvent Screen ✖ Fail
Instrument Gas Chromatography Mass Spectrometry (GC/MS)
Method USP OVI<467>
Analysis Date April 26, 2021 to April 28, 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	108000.00	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




Jordean Vargas
 Analyst

April 28, 2021

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

April 28, 2021

QUICKSILVER SCIENTIFIC

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

Order No. 522880
Sample No. 1081008

SAMPLE INFORMATION

Description Full Spectrum Hemp Oil
Lot Number FSHO2102/1
Category (Type) Non-Inhalable Orally Consumed Concentrate (Tincture)
Received April 26, 2021

ANALYTICAL RESULTS

Analysis Cannabinoid Profile
Instrument Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)
Method MF12D012
Analysis Date April 26, 2021 to April 28, 2021

Cannabinoid	mg/g	%	mg/ml
Δ8-THC	ND	ND	ND
Δ9-THC	0.541	0.0541	0.568
Δ9-THCA	ND	ND	ND
THCV	ND	ND	ND
THCVA	ND	ND	ND
CBD	10.682	1.0682	11.206
CBDA	ND	ND	ND
CBC	1.459	0.1459	1.530
CBCA	ND	ND	ND
CBDV	0.048	0.0048	0.051
CBG	0.183	0.0183	0.192
CBGA	ND	ND	ND
CBN	0.009	0.0009	0.010
Total THC	0.541	0.0541	0.568
Total CBD	10.682	1.0682	11.206
Total Cannabinoids	12.923	1.2923	13.556
Total Active Cannabinoids	12.923	1.2923	13.556
g/ml Conversion Factor	1.049		

Reported by
Anresco, Inc.




Derek Moy
Senior Analyst

April 28, 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

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