

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

PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

		TO SEITH	TIOATE	ANALISIS
Document #	FP.002		Rev.	Effective Date
Product Code#	QSBSHO01		5	04/29/2020
NANOEMULSIFIE	ED BROAD SP	CTRUM HEMP EX	KTRACT 400	
Lot Number:	BSH	2004/1		

Lot Number:	BSHO2004/1
Manufacturing Date:	12/2020
Bottle Size:	50 mL
Storage Recommendation:	Room Temperature
Shelf Life / EXP Date:	EXP: 12/2022

Final Product Tests

Test Performed	Meth	od	Specification	Result	Pass/Fail
Aerobic Plate Count	USP2021		≤ 10⁵cfu/mL	Conforms	☐ Pass☐ Fail
Coliforms	AOAC 991	.14	≤ 100cfu/mL	Conforms	☐ Pass☐ Fail
E. Coli	USP2022		Absent	Conforms	☐ Pass☐ Fail
Staph <i>aureus</i>	USP2022		Absent	Conforms	☐ Pass☐ Fail
Yeast/Mold	USP2021		≤ 1000cfu/mL	Conforms	☐ Pass☐ Fail
Salmonella	USP2022		Absent	Conforms	⊠ Pass □ Fail
Pseudo. aeruginosa	mUSP62		Absent	Conforms	⊠ Pass □ Fail
Arsenic	ICPMS		≤ 2ppm	Conforms	⊠ Pass □ Fail
Cadmium	ICPMS		≤ 2ppm	Conforms	⊠ Pass □ Fail
Lead	ICPMS		≤ 1ppm	Conforms	⊠ Pass □ Fail
Mercury	ICPMS		≤ 1ppm	Conforms	⊠ Pass □ Fail
Liposome size	DLS		10 nm– 50 nm	Conforms	☐ Pass☐ Fail
THC	LC/MS/MS HPLC	or	≤ 0.01%	0.0064%	☐ Pass☐ Fail
Cannabidiol	LC/MS/MS HPLC	or	≥16mg/2 mL	17.306 mg/2mL	☐ Pass☐ Fail
CBDV	LC/MS/MS HPLC	or	For Information Only	0.0521 mg/g	☐ Pass☐ Fail



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PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

		SERTIFICATE OF	ANAL 1313		
Document #	FP.002	Rev.	Effective Date		
		F	Elicotive Date		
Product Code#	QSBSHO01	5	04/29/2020		
NANOEMULSIFIED BROAD SPECTRUM HEMP EXTRACT 400					

Test Performed	Method	Specification	Result	Pass/Fail
CBDA	LC/MS/MS or HPLC	For Information Only	None Detected	☐ Pass☐ Fail
CBG	LC/MS/MS or HPLC	For Information Only	0.0060 mg/g	☐ Pass ☐ Fail
CBN	LC/MS/MS or HPLC	For Information Only	0.0041 mg/g	☐ Pass☐ Fail
CBC	LC/MS/MS or HPLC	For Information Only	0.0113 mg/g	☐ Pass ☐ Fail
α-Pinene	GC/MS or GC-FID	For Information Only	0.09 mg/g	☐ Pass ☐ Fail
Isopulegol	GC/MS or GC-FID	For Information Only	None Detected	⊠ Pass □ Fail
Camphene	GC/MS or GC-FID	For Information Only	None Detected	⊠ Pass □ Fail
Menthol	GC/MS or GC-FID	For Information Only	None Detected	⊠ Pass □ Fail
ß-Myrcene	GC/MS or GC-FID	For Information Only	0.13 mg/g	⊠ Pass □ Fail
(-)-Borneol	GC/MS or GC-FID	For Information Only	None Detected	☐ Pass☐ Fail
ß-Pinene	GC/MS or GC-FID	For Information Only	0.51 mg/g	☐ Pass☐ Fail
Terpineol	GC/MS or GC-FID	For Information Only	None Detected	☐ Pass☐ Fail
δ -3-Carene	GC/MS or GC-FID	For Information Only	None Detected	⊠ Pass □ Fail
Citronellol	GC/MS or GC-FID	For Information Only	None Detected	⊠ Pass □ Fail
Limonene	GC/MS or GC-FID	For Information Only	6.05 mg/g	⊠ Pass □ Fail
Geraniol	GC/MS or GC-FID	For Information Only	None Detected	⊠ Pass □ Fail
α-Terpinene	GC/MS or GC-FID	For Information Only	None Detected	⊠ Pass □ Fail
ß-Caryophyllene	GC/MS or GC-FID	For Information Only	2.93 mg/g	⊠ Pass □ Fail
trans-beta-Ocimene	GC/MS or GC-FID	For Information Only	None Detected	⊠ Pass □ Fail
α-Humulene	GC/MS or GC-FID	For Information Only	0.25 mg/g	☐ Pass☐ Fail



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PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	ED 000	DEICH TOATE OF	ANAL 1313
Document #	FP.002	Rev.	Effective Date
Product Code#	QSBSHO01	5	04/29/2020
NANOEMULSIFI	ED BROAD SPECTRUM H	EMP EXTRACT 400	

Test Performed	Met	hod	Specification	Result	Pass/Fail
cis-beta-Ocimene	GC/MS or	GC-FID	For Information Only	None Detected	☐ Pass
cis-Nerolidol	GC/MS or	GC-FID	For Information Only	None Detected	☐ Pass ☐ Fail
p-Cymene	GC/MS or	GC-FID	For Information Only	None Detected	☐ Pass☐ Fail
trans-Nerolidol	GC/MS or	GC-FID	For Information Only	None Detected	⊠ Pass □ Fail
Eucalyptol	GC/MS or	GC-FID	For Information Only	None Detected	☐ Pass☐ Fail
Guaiol	GC/MS or	GC-FID	For Information Only	0.11 mg/g	⊠ Pass □ Fail
γ-Terpinene	GC/MS or	GC-FID	For Information Only	0.24 mg/g	☐ Pass☐ Fail
Caryophyllene Oxide	GC/MS or	GC-FID	For Information Only	0.01 mg/g	☐ Pass☐ Fail
Terpinolene	GC/MS or	GC-FID	For Information Only	None Detected	☐ Pass☐ Fail
α-Bisabolol	GC/MS or	GC-FID	For Information Only	0.30 mg/g	☐ Pass☐ Fail
Linalool	GC/MS or	GC-FID	For Information Only	0.01 mg/g	⊠ Pass □ Fail
Eudesmol 100% label claim at th	GC/MS or		For Information Only	0.05 mg/g	☐ Pass☐ 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.002	Rev.	Effective Date		
Product Code#	QSBSHO01	5	04/29/2020		
NANOEMULSIFIED BROAD SPECTRUM HEMP EXTRACT 400					

NOTES:

Total Batch Size: 200L

Bottles Produced: 3728

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

Ingredient	Manufacturer	Lot Number	
Broad Spectrum Hemp Extract	Centuria Natural Foods	190049	
Broad Spectrum Hemp Extract	N/A	N/A	
Broad Spectrum Hemp Extract	N/A	N/A	

Released:

Quality Assurance:

Date: 01/04/201



December 28, 2020

QUICKSILVER SCIENTIFIC

Attn: Erin Bingham 1376 Miners Drive Suite 101 Lafayette, CO 80026 Order No. 518605 Sample No. 1067492

SAMPLE INFORMATION

Description Broad Spectrum Hemp Extract

Lot Number BSHO2004/1

Category (Type) Non-Inhalable Orally Consumed Concentrate (Tincture)

Received December 21, 2020

ANALYTICAL RESULTS

Analysis Residual Solvent Screen SFail

Instrument Gas Chromatography Mass Spectrometry (GC/MS)

Method USP OVI<467>

Analysis Date December 21, 2020 to December 28, 2020

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
1,2-Dichloroethane	0.1/1	ND	1	Pass
Acetone	11/150	ND	5000	Pass
Acetonitrile	1/12	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	2/7	88900.00	5000	Fail
Ethyl acetate	5/80	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	5/100	ND	5000	Pass
Methanol	3/50	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	2/30	ND	890	Pass
Total xylenes (ortho-, meta-, para-)	5/90	ND	2170	Pass
Trichloroethylene	0.1/1	ND	1	Pass

Reported by **Anresco, Inc.**

Jordean Vargas

December 28, 2020

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".



Limit (ug/g)

December 23, 2020

QUICKSILVER SCIENTIFIC

Attn: Erin Bingham 1376 Miners Drive Suite 101 Lafayette, CO 80026 Order No. 518605 Sample No. 1067492

Status

SAMPLE INFORMATION

Description Broad Spectrum Hemp Extract

Lot Number BSHO2004/1

Category (Type) Non-Inhalable Orally Consumed Concentrate (Tincture)

Received December 21, 2020

ANALYTICAL RESULTS

Findings (ug/g)

Analysis Pesticides Screen Pass

Instrument Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem

Mass Spectrometry (GC-MS/MS)

LOD/LOO (ug/g)

Method MF 21P030

Analyte

Analysis Date December 21, 2020 to December 23, 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	0.20/0.50	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 (Dichlorvous)	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".

Anresco Laboratories www.anresco.com 1375 Van Dyke Ave,. San Francisco, CA 94124 page **1** of **3**

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Sample #: 1067492 **Batch #:** BSHO2004/1



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	0.20/0.50	ND	0.2	Pass
Paclobutrazol	0.04/0.10	ND	0.04	Pass
Pentachloronitrobenzene	0.04/0.10	ND	0.2	Pass
Permethrins	0.20/0.50	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
Thiaclorprid	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.**

Eric Tam Senior Chemist

December 23, 2020

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".



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 December 21, 2020 to December 23, 2020

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

<LOQ = Below Limit of Quantitation

<LOD = Below Limit of Detection

Eric Tam Senior Chemist

December 23, 2020

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

Sample #: 1067492 Batch #: BSHO2004/1



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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: Broad Spectrum Hemp Extract

Sample ID:

Lot No: BSHO2004/1

Location:

Received: 12/21/2020 Completed: 12/24/2020 Client: Quicksilver Scientific

1376 Miners Drive

Suite 103

Lafayette, CO 80026

Lab No: 208192-02

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	AOAC 2014.05
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:

John Bergamini-Quality Technician

Dated: 12/24/2020

Printed: 12/24/2020 12:49:09 PM





December 23, 2020

QUICKSILVER SCIENTIFIC

Attn: Erin Bingham 1376 Miners Drive Suite 101 Lafayette, CO 80026 Order No. 518605 Sample No. 1067492

SAMPLE INFORMATION

Description Broad Spectrum Hemp Extract

Lot Number BSHO2004/1

Category (Type) Non-Inhalable Orally Consumed Concentrate (Tincture)

Received December 21, 2020

ANALYTICAL RESULTS

Analysis Terpene Profile

Instrument Gas Chromatography Mass Spectrometry (GC/MS)

Method American Herbal Pharmacopoeia

Analysis Date December 21, 2020 to December 23, 2020

Terpene	mg/g	%
α-Pinene	0.09	0.009
Isopulegol	ND	ND
Camphene	ND	ND
Menthol	ND	ND
ß-Myrcene	0.13	0.013
(-)-Borneol	ND	ND
β-Pinene	0.51	0.051
Terpineol	ND	BLOQ
δ -3-Carene	ND	BLOQ
Citronellol	ND	ND
Limonene	6.05	0.605
Geraniol	ND	ND
α-Terpinene	ND	BLOQ
ß-Caryophyllene	2.93	0.293
trans-beta-Ocimene	ND	ND
α-Humulene	0.25	0.025
cis-beta-Ocimene	ND	ND
cis-Nerolidol	ND	ND
p-Cymene	ND	ND
trans-Nerolidol	ND	BLOQ
Eucalyptol	ND	ND
Guaiol	0.11	0.011
y-Terpinene	0.24	0.024
Caryophyllene Oxide	0.01	0.001
Terpinolene	ND	ND
α-Bisabolol	0.30	0.030
Linalool	0.01	0.001
Eudesmol	0.05	0.005
Total Terpenes	10.69	1.069

Reported by **Anresco, Inc.**



December 23, 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".

Sample #: 1067492 **Batch #:** BSHO2004/1



December 28, 2020

QUICKSILVER SCIENTIFIC

Attn: Erin Bingham 1376 Miners Drive Suite 101 Lafayette, CO 80026 Order No. 518605 Sample No. 1067492

SAMPLE INFORMATION

Description Broad Spectrum Hemp Extract

Lot Number BSHO2004/1

Category (Type) Non-Inhalable Orally Consumed Concentrate (Tincture)

Received December 21, 2020

ANALYTICAL RESULTS

Analysis Cannabinoid Profile (LCMSMS)

Instrument Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)

Method MF12D012

Analysis Date December 21, 2020 to December 28, 2020

Cannabinoid	mg/g	%
Δ8-ΤΗC	ND	ND
Δ9-THC	0.0064	0.00064
Δ9-ΤΗCΑ	ND	ND
THCV	ND	ND
THCVA	ND	ND
CBD	8.5734	0.85734
CBDA	ND	ND
CBC	0.0113	0.00113
CBCA	ND	ND
CBDV	0.0521	0.00521
CBG	0.0060	0.00060
CBGA	ND	ND
CBN	0.0041	0.00041
Total THC	0.0064	0.00064
Total CBD	8.5734	0.85734
Total Cannabinoids	8.6533	0.86533
Total Active Cannabinoids	8.6533	0.86533

Reported by **Anresco, Inc.**

Derek Moy Senior Analyst

December 28, 2020

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".



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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: Broad Spectrum Hemp Extract

Sample ID:

Lot No: BSHO2004/1

Location:

Received: 12/21/2020 Completed: 12/24/2020 Client: Quicksilver Scientific

1376 Miners Drive

Suite 103

Lafayette, CO 80026

Lab No: 208193-02

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	0.001	ppm	Report	ICP-MS USP <730>
Cadmium	< 0.001	ppm	Report	ICP-MS USP <730>

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Results Approved By:

John Bergamini-Quality Technician

Dated: 12/24/2020

Printed: 12/24/2020 11:29:34 AM

