



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

## PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.002	Rev. 5	Effective Date 04/29/2020
Product Code#	QSBCHO01		
NANOEMULSIFIED BROAD SPECTRUM HEMP EXTRACT 400			

Lot Number:	BSHO2101/1
Manufacturing Date:	04/2021
Bottle Size:	50 mL
Storage Recommendation:	Room Temperature
Shelf Life / EXP Date:	EXP: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	$\leq 100$ 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	$\leq 1000$ 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	$\leq 2$ ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cadmium	ICPMS	$\leq 2$ ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Lead	ICPMS	$\leq 1$ ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Mercury	ICPMS	$\leq 1$ 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	$\leq 0.01\%$	0.0004%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabidiol	LC/MS/MS or HPLC	$\geq 16$ mg/2 mL	17.476mg/2ml	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBDV	LC/MS/MS or HPLC	For Information Only	0.029mg/ml	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail









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## PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

IDENTIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.002	Rev. 5	Effective Date 04/29/2020
Product Code#	QSBSHO01		
NANOEMULSIFIED BROAD SPECTRUM HEMP EXTRACT 400			

Test Performed	Method	Specification	Result	Pass/Fail
cis-beta-Ocimene	GC/MS or GC-FID	For Information Only	None Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
cis-Nerolidol	GC/MS or GC-FID	For Information Only	None Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
p-Cymene	GC/MS or GC-FID	For Information Only	None Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-Nerolidol	GC/MS or GC-FID	For Information Only	None Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eucalyptol	GC/MS or GC-FID	For Information Only	None Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Guaiol	GC/MS or GC-FID	For Information Only	None Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
$\gamma$ -Terpinene	GC/MS or GC-FID	For Information Only	0.020%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Caryophyllene Oxide	GC/MS or GC-FID	For Information Only	None Detected	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpinolene	GC/MS or GC-FID	For Information Only	0.003%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
$\alpha$ -Bisabolol	GC/MS or GC-FID	For Information Only	0.003%	<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	None 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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## PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Certificate of Specification and Certificate of Analysis			
Document #	FP.002	Rev. 5	Effective Date  04/29/2020
Product Code#	QSBHO01		
NANOEMULSIFIED BROAD SPECTRUM HEMP EXTRACT 400			

### NOTES:

Total Batch Size: 194 L

Bottles Produced: 3787

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

Ingredient	Manufacturer	Lot Number
Broad Spectrum Hemp Extract	CannaBusiness Laboratioeries LLC	210400
Broad Spectrum Hemp Extract		
Broad Spectrum Hemp Extract		

Released:

Quality Assurance:

Date: 05/10/2021



May 07, 2021

**QUICKSILVER SCIENTIFIC**

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

Order No. 523226  
 Sample No. 1082117

## SAMPLE INFORMATION

**Description** Broad Spectrum Hemp Extract  
**Lot Number** BSHO2101/1  
**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	0.11	0.011
(-)-Borneol	ND	ND
β-Pinene	0.48	0.048
Terpineol	ND	ND
δ-3-Carene	BLOQ	BLOQ
Citronellol	ND	ND
Limonene	5.64	0.564
Geraniol	ND	ND
α-Terpinene	BLOQ	BLOQ
β-Caryophyllene	2.91	0.291
trans-beta-Ocimene	ND	ND
α-Humulene	0.19	0.019
cis-beta-Ocimene	ND	ND
cis-Nerolidol	ND	ND
p-Cymene	ND	ND
trans-Nerolidol	ND	ND
Eucalyptol	ND	ND
Guaiol	ND	ND
γ-Terpinene	0.20	0.020
Caryophyllene Oxide	ND	ND
Terpinolene	0.03	0.003
α-Bisabolol	0.03	0.003
Linalool	0.02	0.002
Eudesmol	ND	ND
<b>Total Terpenes</b>	<b>9.67</b>	<b>0.967</b>

Reported by  
**Anresco, Inc.**


  
 Ginzu 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](mailto:compliance@anresco.com)".

## Certificate Of Analysis

Quicksilver Scientific  
1960 Cherry St  
Louisville, CO 80027

Certificate ID 140701  
Report Date 04-30-2021  
Customer PO  
Receipt Date 04-26-2021  
Test Completion Date 04-30-2021

### Analytical Testing Results

Customer Lot BSHO2101/1  
Description Broad Spectrum Hemp Extract

Lab Sample ID 612090  
Serving Size 1 Milliliters

Method ^ AOAC 993.14/GL-500

#### Analysis

Lead (Pb)  
Cadmium (Cd)  
Arsenic (As)

Test Type ICP-MS

#### Specification

<= 1  
<= 2  
<= 2

#### Result

<0.009  
<0.008  
<0.016

#### U/M

ppm  
ppm  
ppm

Method ^ EPA 7473/GL-585

#### Analysis

Mercury (Hg)

Test Type DMA

#### Specification

<= 1

#### Result

<0.001

#### U/M

ppm

Method ^ AOAC 2014.05/GL-451

#### Analysis

Yeasts and Molds

Test Type Yeasts and Molds

#### Specification

<= 1000

#### Result

<10

#### U/M

cfu/ml

Method ^ USP <2022>/GL-461

#### Analysis

Salmonella

Test Type Salmonella

#### Specification

Negative

#### Result

Negative

#### U/M

Method ^ USP <2022>/GL-441

#### Analysis

Staphylococcus aureus

Test Type Staphylococcus aureus

#### Specification

Negative

#### Result

Negative

#### U/M

Method ^ USP <2022>/GL-423

#### Analysis

E. coli

Test Type E. coli

#### Specification

Negative

#### Result

Negative

#### U/M

Method ^ AOAC 991.14/GL-420

#### Analysis

Coliforms

Test Type Coliforms

#### Specification

<= 100

#### Result

<10

#### U/M

cfu/ml

Method ^ USP <2021>/GL-411

#### Analysis

Aerobic Plate Count

Test Type Aerobic Plate Count

#### Specification

<= 1000000

#### Result

<1000

#### U/M

cfu/ml

Method USP <62>/GL-480

#### Analysis

Pseudomonas aeruginosa

Test Type Pseudomonas aeruginosa

#### Specification

Negative

#### Result

Negative

#### U/M



1945 S. Fremont Drive  
Salt Lake City, Utah 84104  
Phone: 801.973.8824  
[www.dyadlabs.com](http://www.dyadlabs.com)

**Laboratory Comments:**

Certificate ID#: 140701

Reviewed By: Shiarra Deletter

Approved By: \_\_\_\_\_

A handwritten signature in blue ink, appearing to read "Edgar Grigorian", written over a horizontal line.

Edgar Grigorian, VP of Technical Affairs  
On Behalf of Dyad Labs

**Laboratory Notes:**

Samples were received in acceptable condition unless otherwise noted in the laboratory comments section. This report may not be distributed or reproduced except in full, without written permission from Dyad Labs. Client shall not at any time misrepresent or alter the contents of this report. Any violation of these conditions voids this report. Dyad Labs assumes no responsibility, and client hereby waives all claims against Dyad Labs, for interpretation of such results. The results apply only to the sample(s) provided by the client. All work is done in accordance with Dyad Labs Terms and Conditions of Sale. Full text available on [www.dyadlabs.com/Terms](http://www.dyadlabs.com/Terms)

**Result Symbol Definitions:**

^ = ISO 17025 certified method

\* = Analysis performed at a subcontract location

April 28, 2021

**QUICKSILVER SCIENTIFIC**

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

Order No. 522880  
Sample No. 1081009

## SAMPLE INFORMATION

**Description** Broad Spectrum Hemp Oil  
**Lot Number** BSHO2101/1  
**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

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".



April 28, 2021

**QUICKSILVER SCIENTIFIC**

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

Order No. 522880  
 Sample No. 1081009

## SAMPLE INFORMATION

**Description** Broad Spectrum Hemp Oil  
**Lot Number** BSHO2101/1  
**Category (Type)** Non-Inhalable Orally Consumed Concentrate (Tincture)  
**Received** April 26, 2021

## ANALYTICAL RESULTS

**Analysis** Pesticide Screen ✔ Pass  
**Instrument** Liquid Chromatography Tandem Mass Spectrometry (LC-MS/MS) & Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS)  
**Method** MF 21P030  
**Analysis Date** April 26, 2021 to April 28, 2021

Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
Abamectin	0.04/0.10	ND	0.3	Pass
Acephate	0.02/0.06	ND	5.0	Pass
Acequinocyl	0.04/0.10	ND	4.0	Pass
Acetamiprid	0.02/0.06	ND	5.0	Pass
Aldicarb	0.02/0.06	ND	0.02	Pass
Azoxystrobin	0.02/0.06	ND	40.0	Pass
Bifenazate	0.02/0.06	ND	5.0	Pass
Bifenthrin	0.04/0.10	ND	0.5	Pass
Boscalid	0.02/0.06	ND	10.0	Pass
Captan	0.20/0.06	ND	5.0	Pass
Carbaryl	0.02/0.06	ND	0.5	Pass
Carbofuran	0.02/0.06	ND	0.02	Pass
Chlorantraniliprole	0.02/0.06	ND	40.0	Pass
Chlordane	0.02/0.06	ND	0.02	Pass
Chlorfenapyr	0.02/0.08	ND	0.02	Pass
Chlorpyrifos	0.02/0.06	ND	0.02	Pass
Clofentezine	0.02/0.06	ND	0.5	Pass
Coumaphos	0.02/0.06	ND	0.02	Pass
Cyfluthrin	0.10/0.30	ND	1.0	Pass
Cypermethrin	0.10/0.30	ND	1.0	Pass
Daminozide	0.02/0.06	ND	0.02	Pass
DDVP (Dichlorvos)	0.02/0.06	ND	0.02	Pass
Diazinon	0.02/0.06	ND	0.2	Pass
Dimethoate	0.02/0.06	ND	0.02	Pass
Dimethomorph	0.02/0.06	ND	20.0	Pass
Ethoprop(hos)	0.02/0.06	ND	0.02	Pass
Etofenprox	0.02/0.06	ND	0.02	Pass
Etoxazole	0.02/0.06	ND	1.5	Pass
Fenhexamid	0.02/0.06	ND	10.0	Pass
Fenoxycarb	0.02/0.06	ND	0.02	Pass
Fenpyroximate	0.02/0.06	ND	2.0	Pass
Fipronil	0.02/0.06	ND	0.02	Pass

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Analyte	LOD/LOQ (ppm)	Findings (ppm)	Limit (ppm)	Status
Flonicamid	0.02/0.06	ND	2.0	Pass
Fludioxanil	0.02/0.06	ND	30.0	Pass
Hexythiazox	0.02/0.06	ND	2.0	Pass
Imazalil	0.02/0.06	ND	0.02	Pass
Imidacloprid	0.02/0.06	ND	3.0	Pass
Kresoxim Methyl	0.02/0.06	ND	1.0	Pass
Malathion	0.02/0.06	ND	5.0	Pass
Metalaxyl	0.02/0.06	ND	15.0	Pass
Methiocarb	0.02/0.06	ND	0.02	Pass
Methomyl	0.02/0.06	ND	0.1	Pass
Methyl parathion	0.02/0.06	ND	0.02	Pass
Mevinphos	0.02/0.06	ND	0.02	Pass
Myclobutanil	0.02/0.06	ND	9.0	Pass
Naled	0.02/0.06	ND	0.5	Pass
Oxamyl	0.02/0.06	ND	0.2	Pass
Paclobutrazol	0.02/0.06	ND	0.02	Pass
Pentachloronitrobenzene	0.04/0.10	ND	0.2	Pass
Permethrins	0.10/0.30	ND	20.0	Pass
Phosmet	0.02/0.06	ND	0.2	Pass
Piperonyl Butoxide	0.02/0.06	ND	8.0	Pass
Prallethrin	0.04/0.10	ND	0.4	Pass
Propiconazole	0.02/0.06	ND	20.0	Pass
Propoxur	0.02/0.06	ND	0.02	Pass
Pyrethrins	0.10/0.30	ND	1.0	Pass
Pyridaben	0.02/0.06	ND	3.0	Pass
Spinetoram	0.02/0.06	ND	3.0	Pass
Spinosad	0.02/0.06	ND	3.0	Pass
Spiromesifen	0.04/0.10	ND	12.0	Pass
Spirotetramat	0.02/0.06	ND	13.0	Pass
Spiroxamine	0.02/0.06	ND	0.02	Pass
Tebuconazole	0.02/0.06	ND	2.0	Pass
Thiacloprid	0.02/0.06	ND	0.02	Pass
Thiamethoxam	0.02/0.06	ND	4.5	Pass
Trifloxystrobin	0.02/0.06	ND	30.0	Pass

Reported by  
**Anresco, Inc.**

ND = None Detected



Eric Tam  
 Senior Chemist

April 28, 2021

If there are any questions with this report, please contact "[compliance@anresco.com](mailto:compliance@anresco.com)".



April 28, 2021

**QUICKSILVER SCIENTIFIC**

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

Order No. 522880  
 Sample No. 1081009

**SAMPLE INFORMATION**

**Description** Broad Spectrum Hemp Oil  
**Lot Number** BSHO2101/1  
**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	112000.00	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](mailto:compliance@anresco.com)".



April 28, 2021

**QUICKSILVER SCIENTIFIC**

Attn: Erin Bingham  
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 Lafayette, CO 80026

Order No. 522880  
 Sample No. 1081009

## SAMPLE INFORMATION

**Description** Broad Spectrum Hemp Oil  
**Lot Number** BSHO2101/1  
**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	0.004	0.0004	0.004
Δ9-THCA	ND	ND	ND
THCV	ND	ND	ND
THCVA	ND	ND	ND
CBD	8.294	0.8294	8.700
CBDA	ND	ND	ND
CBC	<LOQ (0.002)	<LOQ (0.0002)	<LOQ (0.002)
CBCA	ND	ND	ND
CBDV	0.028	0.0028	0.029
CBG	<LOQ (0.002)	<LOQ (0.0002)	<LOQ (0.003)
CBGA	ND	ND	ND
CBN	ND	ND	ND
Total THC	0.004	0.0004	0.004
Total CBD	8.294	0.8294	8.700
Total Cannabinoids	8.330	0.8330	8.738
Total Active Cannabinoids	8.330	0.8330	8.738
<b>g/ml Conversion Factor</b>	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](mailto:compliance@anresco.com)".