



1960 Cherry St, Louisville, CO 80027  
 P: 303-531-0861 E: support@quicksilverscientific.com

## PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.004	Rev. 7	Effective Date 10/19/2021
Product Code#	QSFSHO01		
<b>NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400</b>			

<b>Lot Number:</b>	FSHO2302/1
<b>Manufacturing Date:</b>	10/2023
<b>Bottle Size:</b>	50 mL
<b>Storage Recommendation:</b>	Room Temperature
<b>Shelf Life / EXP Date:</b>	10/2025

### Final Product Tests

Test Performed	Method	Specification	Result	Pass/Fail
Aerobic Plate Count	USP2021	≤ 10 <sup>5</sup> cfu/mL	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Coliforms	AOAC 991.14	≤ 100cfu/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	≤ 1000cfu/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	≤ 2ppm	0.003 ppm	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cadmium	ICPMS	≤ 2ppm	<0.001 ppm	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Lead	ICPMS	≤ 1ppm	0.005 ppm	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Mercury	ICPMS	≤ 1ppm	<0.001 ppm	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
THC	LC/MS/MS or HPLC	≤ 0.3%	0.1%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabidiol	LC/MS/MS or HPLC	≥16mg/2 mL	21 mg/2mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBDV	LC/MS/MS or HPLC	For Information Only	0.025 mg/mL	N/A
CBDA	LC/MS/MS or HPLC	For Information Only	BRL	N/A



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CBG	LC/MS/MS or HPLC	For Information Only	0.074 mg/mL	N/A
CBN	LC/MS/MS or HPLC	For Information Only	0.097 mg/mL	N/A
CBC	LC/MS/MS or HPLC	For Information Only	0.322 mg/mL	N/A
$\alpha$ -Pinene	GC/MS or GC-FID	For Information Only	0.069 mg/g	N/A
Isopulegol	GC/MS or GC-FID	For Information Only	ND	N/A
Camphene	GC/MS or GC-FID	For Information Only	ND	N/A
Menthol	GC/MS or GC-FID	For Information Only	ND	N/A
$\beta$ -Myrcene	GC/MS or GC-FID	For Information Only	0.099 mg/g	N/A
(-)-Borneol	GC/MS or GC-FID	For Information Only	ND	N/A
$\beta$ -Pinene	GC/MS or GC-FID	For Information Only	0.350	N/A
Terpineol	GC/MS or GC-FID	For Information Only	ND	N/A
$\delta$ -3-Carene	GC/MS or GC-FID	For Information Only	ND	N/A
Citronellol	GC/MS or GC-FID	For Information Only	ND	N/A
Limonene	GC/MS or GC-FID	For Information Only	4.019 mg/g	N/A
Geraniol	GC/MS or GC-FID	For Information Only	ND	N/A
$\alpha$ -Terpinene	GC/MS or GC-FID	For Information Only	ND	N/A
$\beta$ -Caryophyllene	GC/MS or GC-FID	For Information Only	2.447 mg/g	N/A
trans-beta-Ocimene	GC/MS or GC-FID	For Information Only	ND	N/A
$\alpha$ -Humulene	GC/MS or GC-FID	For Information Only	0.145 mg/g	N/A
cis-beta-Ocimene	GC/MS or GC-FID	For Information Only	BLOQ	N/A
cis-Nerolidol	GC/MS or GC-FID	For Information Only	ND	N/A
p-Cymene	GC/MS or GC-FID	For Information Only	ND	N/A
trans-Nerolidol	GC/MS or GC-FID	For Information Only	ND	N/A
Eucalyptol	GC/MS or GC-FID	For Information Only	ND	N/A
Guaiol	GC/MS or GC-FID	For Information Only	0.013 mg/g	N/A



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Test Performed	Method	Specification	Result	Pass/Fail
γ-Terpinene	GC/MS or GC-FID	For Information Only	0.214 mg/g	N/A
Caryophyllene Oxide	GC/MS or GC-FID	For Information Only	ND	N/A
Terpinolene	GC/MS or GC-FID	For Information Only	0.021 mg/g	N/A
α-Bisabolol	GC/MS or GC-FID	For Information Only	0.100 mg/g	N/A
Linalool	GC/MS or GC-FID	For Information Only	0.031	N/A
Eudesmol	GC/MS or GC-FID	For Information Only	0.034 mg/g	N/A

\*100% label claim at the time of manufacture

\*\*Solvent and Pesticide testing performed annually

### NOTES:

CoA reflects both QS and Emerson bottling events.

Total Batch Size: 80L

Bottles Produced: 1555 units

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

Ingredient	Manufacturer	Lot Number
Full Spectrum Hemp Extract	Ananda Hemp	230944
Full Spectrum Hemp Extract	N/A BM 11/16/2023	N/A BM 11/16/2023
Full Spectrum Hemp Extract	N/A BM 11/16/2023	N/A BM 11/16/2023

Released:

*Brandon Morey*

Electronically signed by: Brandon Morey  
 Reason: Reviewed and Approved  
 Date: Nov 16, 2023 10:09 MST

Quality Assurance: \_\_\_\_\_

Date: \_\_\_\_\_



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### REVISION HISTORY

Rev.	Date	Description of Changes
7	10/19/2021	DCR20210827C - Updated template from DCR20210414B.
6	04/29/2020	DCR20200421B - added to notes section- product description and table to include hemp raw material manufacturer and lot number.
5	03/06/2020	DCR20200229A – Changed test performed from Active Diols to Cannabidiol and changed test method for Liposomal Size to DLS
4	11/05/2019	DCR20191028A - Added “Total Batch Size” and “Bottles Produced” -Corrected Linalool spelling
3	07/19/2019	DCR20190521A – template update, added methods to the body, added terpene and cannabidiol profiles and a statement for annual pesticide and solvent testing.
2	05/15/2019	DCR20190508A - Updated the THC specification to ≤0.3% from <0.01%
1	04/10/2019	DCR20190402C – New Document

### DOCUMENT APPROVALS

Author: Ryan Burt Date: 10/11/21

Quality Assurance: Sam U... Date: 10/13/21