



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		
<b>NANOEMULSIFIED FULL SPECTRUM HEMP EXTRACT 400</b>			

Lot Number:	FSHO2005/2
Manufacturing Date:	08/2020
Bottle Size:	50 mL
Storage Recommendation:	Room Temperature
Shelf Life / EXP Date:	EXP:08/2022

### 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	$\leq 0.3\%$	0.04%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabidiol	LC/MS/MS or HPLC	$\geq 16$ mg/2 mL	18.8mg/2ml	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBDV	LC/MS/MS or HPLC	For Information Only	0.009%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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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	0.023%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBN	LC/MS/MS or HPLC	For Information Only	0.001%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBC	LC/MS/MS or HPLC	For Information Only	0.024%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
$\alpha$ -Pinene	GC/MS or GC-FID	For Information Only	0.012%	<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
$\beta$ -Myrcene	GC/MS or GC-FID	For Information Only	0.020%	<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
$\beta$ -Pinene	GC/MS or GC-FID	For Information Only	0.051%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpineol	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
$\delta$ -3-Carene	GC/MS or GC-FID	For Information Only	<LOQ	<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	0.656%	<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
$\alpha$ -Terpinene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
$\beta$ -Caryophyllene	GC/MS or GC-FID	For Information Only	0.318%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-beta-Ocimene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
$\alpha$ -Humulene	GC/MS or GC-FID	For Information Only	0.018%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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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	<LOQ	<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	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
γ -Terpinene	GC/MS or GC-FID	For Information Only	0.021%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Caryophyllene Oxide	GC/MS or GC-FID	For Information Only	0.002%	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpinolene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α-Bisabolol	GC/MS or GC-FID	For Information Only	0.006%	<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	0.003%	<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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**NOTES:**

Total Batch Size: 386 L

Bottles Produced: 1007

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	200671
Full Spectrum Hemp Extract		

Released:

Quality Assurance:

Date:

09/17/2020