



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

PRODUCT SPECIFICATION AND CERTIFICATE OF ANALYSIS

Document #	FP.148	Rev. 1	Effective Date 09/21/2020
Product Code#	QSBHO01		
MORGAN BIOMEDICAL CBD 400 BROAD SPECTRUM HEMP EXTRACT			

Lot Number:	BSHO2003/1
Manufacturing Date:	09/2020
Bottle Size:	50 mL
Storage Recommendation:	Room Temperature
Shelf Life / EXP Date:	EXP:09/2022

Final Product Tests

Test Performed	Method	Specification	Result	Pass/Fail
Aerobic Plate Count	USP2021	≤ 10 ⁵ 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	AOAC2014.05	≤ 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	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cadmium	ICPMS	≤ 2ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Lead	ICPMS	≤ 1ppm	Conforms	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Mercury	ICPMS	≤ 1ppm	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	ND	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Cannabidiol	LC/MS/MS or HPLC	≥16mg/2 mL	17.46/2mL	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBDV	LC/MS/MS or HPLC	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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CBDA	LC/MS/MS or HPLC	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBG	LC/MS/MS or HPLC	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBN	LC/MS/MS or HPLC	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
CBC	LC/MS/MS or HPLC	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Pinene	GC/MS or GC-FID	For Information Only	0.086 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Isopulegol	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Camphene	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Menthol	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Myrcene	GC/MS or GC-FID	For Information Only	0.114 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
(-)-Borneol	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Pinene	GC/MS or GC-FID	For Information Only	0.538 mg/g	<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
δ -3-Carene	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Citronellol	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Limonene	GC/MS or GC-FID	For Information Only	7.420 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Geraniol	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Terpinene	GC/MS or GC-FID	For Information Only	<LOQ	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
β -Caryophyllene	GC/MS or GC-FID	For Information Only	3.140 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-beta-Ocimene	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α -Humulene	GC/MS or GC-FID	For Information Only	0.171 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail



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cis-beta-Ocimene	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
cis-Nerolidol	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
p-Cymene	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
trans-Nerolidol	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eucalyptol	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Guaiol	GC/MS or GC-FID	For Information Only	0.135 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
γ-Terpinene	GC/MS or GC-FID	For Information Only	0.221 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Caryophyllene Oxide	GC/MS or GC-FID	For Information Only	0.015 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Terpinolene	GC/MS or GC-FID	For Information Only	ND	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
α-Bisabolol	GC/MS or GC-FID	For Information Only	0.347 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Linalool	GC/MS or GC-FID	For Information Only	0.021 mg/g	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Eudesmol	GC/MS or GC-FID	For Information Only	0.056 mg/g	<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: 140L

Bottles Produced: 2007

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

Ingredient	Manufacturer	Lot Number
Broad Spectrum Hemp Extract	Centuria	190049
Broad Spectrum Hemp Extract		
Broad Spectrum Hemp Extract		

Released:

Quality Assurance: Sam King Date: 10/05/2020