

Lot Number: 19-1011 Date of Manufacture: Nov-2019

> SKU: MDI1MGCBD Page 1 of 1

Certificate of Analysis

Product: Brēz CBD Inhaler

Test Description	Test Method Number	Analyst	Specification	Resu	Pass/ Fail	
Cannabidiol Total Content Assay LM-ET001-001		ECP	90% to 110% of target 1.98%w/w for average and individual units	Mean: Min: 9 Max: 1	Pass	
Dose Content Uniformity (DCU)	LM-ET001-001 LM-ET001-003	ECP	The amount of active ingredient per determination is not outside of 80-120 percent of label claim for more than one of ten containers, none of the determinations is outside of 75-125 percent of the label claim, and the mean is not outside of 85-115 percent of the label claim. Label Claim: 1mg/actuation	Spray 1 Mean: 1.01mg Min: 0.96mg Max: 1.05mg Spray 2 Mean: 1.02mg Min: 0.96mg Max: 1.06mg	Spray 1 Mean: 101% Min: 96% Max: 105% Spray 2 Mean: 102% Min: 96% Max: 106%	Pass
DCU through Container Life	LM-ET001- <mark>0</mark> 01 LM-ET001- <mark>00</mark> 3	ECP	The amount of active ingredient per determination is not outside of 80-120 percent of label claim for more than one of nine determinations from three containers, none of the determinations is outside of 75-125 percent of the label claim, and means for each of the beginning, middle, and end determinations are not outside of 85-115 percent of the label claim. Label Claim: 1mg/actuation	Beginning Mean: 1.03mg Min: 1.01mg Max: 1.06mg Middle Mean: 1.03mg Min: 0.97mg Max: 1.07mg End End Mean: 1.07mg End Min: 1.04mg End Max: 1.10mg	Beginning Mean: 103% Min: 101% Max: 106% Middle Mean: 103% Min: 97% Max: 107% End End Mean: 107% End Min: 104% End Max: 110%	Pass

Authorization:			
Charles R. Eck	ah? I	09 Dec 19	
Print Name	Signature	Date	
Approval:			
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Kristen Bobrowielki	Dist Delle	09Dec 2019	
Print Name	Signature	Date	

END OF REPORT



Certificate ID: 72367 (Reissued)

Received: 11/27/19

Client Sample ID: Brez CBD Inhaler - MDI1MGCBD - Beg

Lot Number: 19-1011

Matrix: Personal Care - De-pressurized pMDI



Entourage Therapeutics

PO Box 9669

Fall River, MA 02720

Attn: Kristen Bobrowiecki

Authorization:

Signature:

Date:

Jon Podgorni, Lead Research Chemist

on Podgorne

1/15/2020







Accreditation # 80585

The data contained within this report was collected in accordance with the requirements of ISO/IEC17025:2017. I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

CN: Cannabinoid Profile & Potency [WI-10-17 & WI-10-17-01]

Analyst: JSG

Test Date: 12/10/2019

The client sample was analyzed for plant-based cannabinoids by Liquid Chromatography (LC). The collected data was compared to data collected for certified reference standards at known concentrations. Reissued to present cannabinoid data based on entire contents of pressurized cannister.

72367-CN

/230/-CIV					
ID	Weight %	Concentration (mg/Cannister			
D9-THC	ND	ND			
THCV	ND	ND			
CBD	24.91	239.59			
CBDV	0.07	0.68			
CBG	ND	ND			
CBC	ND	ND			
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	0.04	0.38			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	25.02	240.65	0%	Cannabinoids (wt%)	24.9%
Max THC	ND	ND			
Max CBD	24.91	239.59			

Limit of Quantitation (LOQ) = 0.01 wt%

Max THC (and Max CBD) are calculated values for total cannabinoids after heating, assuming complete decarboxylation of the acid to the neutral form. It is calculated based on the weight loss of the acid group during decarboxylation: Max THC = (0.877 x THCA) + THC. This calculation does not include other cannabinoid isomers (eg. D8-THC and exo-THC). ND = None detected above the limits of detection (LOD), which is half of LOQ.

HM: Heavy Metal Analysis [WI-10-13]

Analyst: CJS

Test Date: 12/3/2019

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

/	23	50	/-	·h	1

				Use Lim	its ² (μg/kg)	
Symbol	Metal	Conc. 1 (µg/kg)	RL	All	Ingestion	Status
As	Arsenic	ND	50	200	1500	PASS
Cd	Cadmium	ND	50	200	500	PASS
Hg	Mercury	ND	50	100	1500	PASS
Pb	Lead	ND	50	500	1000	PASS

¹⁾ ND = None detected to Lowest Limits of Detection (LLD)

MB1: Microbiological Contaminants [WI-10-09]

Analyst: AEG

Test Date: 12/2/2019

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

72367-MB1

Symbol	Analysis	Results	Units	Limits*	Status
AC	Total Aerobic Bacterial Count	<100	CFU/g	100,000 CFU/g	PASS
CC	Total Coliform Bacterial Count	<100	CFU/g	1,000 CFU/g	PASS
EB	EB Total Bile Tolerant Gram Negative Count		CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

Note: All recorded Microbiological tests are within the established limits.

MB2: Pathogenic Bacterial Contaminants [WI-10-10]

Analyst: LabAdmin

Test Date: 12/3/2019

This test method was performed in accordance with the requirements of ISO/IEC 17025. These results relate only to the test article listed in this report. Reports may not be reproduced except in their entirety.

72367-MB2

Test ID	Analysis	Results	Units	Limits*	Status
72367-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
72367-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

²⁾ MA Dept. of Public Health: Protocol for MMJ and MIPS, Exhibit 4(a) for all products.

³⁾USP exposure limits based on daily oral dosing of 1g of concentrate for a 110 lb person.

PST: Pesticide Analysis [WI-10-11]

Analyst: CJR

Test Date: 12/20/2019

The client sample was anlayzed for pesticides using Liquid Chromatography with Mass Spectrometric detection (LC/MS/MS). The method used for sample prep was based on the European method for pesticide analysis (EN 15662).

72367-PST

Analyte	CAS	Result	Units	LLD	Limits (ppb)	Status
Abamectin	71751-41-2	ND	ppb	0.2	300	PASS
Azoxystrobin	131860-33-8	ND	ppb	0.10	40000	PASS
Bifenazate	149877-41-8	ND	ppb	0.10	5000	PASS
Bifenthrin	82657-04-3	ND	ppb	0.20	500	PASS
Cyfluthrin	68359-37-5	ND	ppb	0.50	1000	PASS
Daminozide	1596-84-5	ND	ppb	10.00	10	*
Etoxazole	153233-91-1	ND	ppb	0.10	1500	PASS
Fenoxycarb	72490-01-8	ND	ppb	0.10	10	PASS
Imazalil	35554-44-0	ND	ppb	0.10	10	PASS
Imidacloprid	138261-41-3	ND	ppb	0.10	3000	PASS
Myclobutanil	88671-89-0	ND	ppb	0.10	9000	PASS
Paclobutrazol	76738-62-0	ND	ppb	0.10	10	PASS
Piperonyl butoxide	51-03-6	ND	ppb	0.10	8000	PASS
Pyrethrin	8003-34-7	ND	ppb	0.1	1000	PASS
Spinosad	168316-95-8	ND	ppb	0.1	3000	PASS
Spiromesifen	283594-90-1	ND	ppb	0.10	12000	PASS
Spirotetramat	203313-25-1	ND	ppb	0.10	13000	PASS
Trifloxystrobin	141517-21-7	ND	ppb	0.10	30000	PASS

^{*} Testing limits for ingestion established by the State of California: CCR, Title 16, Division 42, Chapter 5, Section 5313. ND indicates "none detected" above the lower limit of detection (LLD). Analytes marked with (*) indicate analytes for which no recovery was observed for a pre-spiked matrix sample.

VC: Analysis of Volatile Organic Compounds [WI-10-28]

Analyst: JR

Test Date: 11/27/2019

The client sample was analyzed by Head-Space Gas Chromatography (HS-GC). The collected data was compared to data collected for certified reference standards at known concentrations.

72367-VC

Compound	CAS	Amount ¹	Limit ²	RL	Status
Propane	74-98-6	ND	1,000 ppm	100	PASS
Isobutane	75-28-5	ND	1,000 ppm	100	PASS
Butane	106-97-8	ND	1,000 ppm	100	PASS
Methanol	67-56-1	ND	3,000 ppm	100	PASS
Pentane	109-66-0	ND	5,000 ppm	100	PASS
Ethanol	64-17-5	107,916 ppm	5,000 ppm	100	*
Acetone	67-64-1	ND	5,000 ppm	100	PASS
Isopropanol	67-63-0	ND	5,000 ppm	100	PASS
Acetonitrile	75-05-8	ND	410 ppm	100	PASS
Hexane	110-54-3	ND	290 ppm	100	PASS
Heptane	142-82-5	ND	5,000 ppm	100	PASS

¹⁾ ND = Not detected at a level greater than the Reporting Limit (RL).

END OF REPORT

²⁾ In ppm, based on USP recommended limits for residual solvents, adopted by the Massachusetts Department of Public Health for cannabis concentrates and extracts on 3/31/16. Butane/Propane limits are based on limits established for state of Colorado.

^(*)This product contains ethanol as a co-solvent and therefore amounts higher than the limit are expected, no status has been assigned.