



Certificate ID: **83218-431**
 Received: **6/16/20**
 Client Sample ID: **2oz Butter - 1200mg - FS**
 Lot Number: **ENF01-01**
 Matrix: **Topicals - Body Butter**

Scan QR Code for authenticity



ENUF
 PERIOD

Authorization: Chris Hudalla, Chief Science Officer	Signature: <i>Christopher Hudalla</i>	Date: 9/18/2020
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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: JFD

Test Date: 6/19/2020

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.

83218-CN

ID	Weight %	Concentration (mg/g)		
D9-THC	0.0177	0.177		
THCV	ND	ND		
CBD	2.38	23.8		
CBDV	<LOQ	<LOQ		
CBG	ND	ND		
CBC	0.0129	0.129		
CBN	ND	ND		
THCA	ND	ND		
CBDA	<LOQ	<LOQ		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	2.43	24.3	0%	Cannabinoids (wt%) 2.4%
Max THC	0.0177	0.177		
Max CBD	2.38	23.8		

Limit of Quantitation (LOQ) = 0.0103 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 one third of LOQ.

MB1: Microbiological Contaminants [WI-10-09]

Analyst: AEG

Test Date: 6/19/2020

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.

83218-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	Total Bile Tolerant Gram Negative Count	<100	CFU/g	1,000 CFU/g	PASS
YM	Total Yeast & Mold	<100	CFU/g	10,000 CFU/g	PASS

Recommended limits established by the American Herbal Pharmacopoeia (AHP) monograph for Cannabis Inflorescence [2013], for consumable botanical products, including processed and unprocessed cannabis materials, and solvent-based extracts. Note: All recorded Microbiological tests are within the established limits.

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

Analyst: LabAdmin

Test Date: 6/20/2020

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.

83218-MB2

Test ID	Analysis	Results	Units	Limits*	Status
83218-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
83218-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

MY: Mycotoxin Testing [WI-10-05]

Analyst: SRL/RAS

Test Date: 7/1/2020

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.

83218-MY

Test ID	Date	Results	MDL	Limits	Status*
Total Aflatoxin	7/1/2020	< MDL	2 ppb	< 20 ppb	PASS
Total Ochratoxin	7/1/2020	15	3 ppb	< 20 ppb	PASS

TP: Terpenes Profile [WI-10-27]

Analyst: CA

Test Date: 6/23/2020

Client sample analysis was performed using full evaporative technique (FET) headspace sample delivery and gas chromatographic (GC) compound separation. A combination of flame ionization detection (FID) and/or mass spectrometric (MS) detection with mass spectral confirmation against the National Institute of Standards and Technology (NIST) Mass Spectral Database, Revision 2017 were used. Chromatographic and/or mass spectral data were processed by quantitatively comparing the analytical peak areas against calibration curves prepared from certified reference standards.

83218-TP

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.0012	12.3	
camphene	79-92-5	<RL	<RL	
sabinene*	3387-41-5	0.0005	5.13	
beta-myrcene	123-35-3	0.0011	10.7	
beta-pinene	127-91-3	0.0014	14.1	
alpha-phellandrene	99-83-2	<RL	<RL	
delta-3-carene	13466-78-9	<RL	<RL	
alpha-terpinene	99-86-5	<RL	<RL	
alpha-ocimene	502-99-8	0.0030	30.2	
D-limonene	138-86-3	0.0042	41.5	
p-cymene	99-87-6	0.0008	7.96	
cis-beta-ocimene	3338-55-4	0.0026	26.0	
eucalyptol	470-82-6	0.0081	81.2	
gamma-terpinene	99-85-4	<RL	<RL	
terpinolene	586-62-9	<RL	<RL	
linalool	78-70-6	0.0328	328	
L-fenchone*	7787-20-4	ND	ND	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	0.0153	153	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.0036	35.8	
alpha-humulene	6753-98-6	0.0010	9.57	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
guaial	489-86-1	<RL	<RL	
caryophyllene oxide	1139-30-6	<RL	<RL	
alpha-bisabolol	23089-26-1	<RL	<RL	

Total Terpene: 0.1 wt%

* Certified reference standard not available for this compound. Concentration is estimated using the response factor from alpha-pinene. ND = None Detected. RL = Reporting Limit of 5 ppm.

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

Analyst: CA

Test Date: 6/19/2020

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.

83218-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	ND	5,000 ppm	100	PASS
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).

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.

(*) For ethanol, as many formulations contain flavorings based on ethanol extracts of natural products, no status has been assigned.

END OF REPORT