



Certificate ID: **93007**

Received: **3/9/21**

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Client Sample ID: **Liftmode Hemp Silk Relief Salve**

**LIFTMODE HEMP**

Lot Number: **202517**

Matrix: **Topicals - Salve**

Authorization:

Chris Hudalla, Chief Science Officer

Signature:



Date:

3/31/2021



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: AC

Test Date: 3/24/2021

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.

**93007-CN**

ID	Weight %	Concentration (mg/g)			
D9-THC	0.105	1.05			
THCV	ND	ND			
CBD	3.86	38.6			
CBDV	0.0141	0.141			
CBG	0.0454	0.454			
CBC	0.145	1.45			
CBN	ND	ND			
THCA	ND	ND			
CBDA	ND	ND			
CBGA	ND	ND			
D8-THC	ND	ND			
exo-THC	ND	ND			
Total	4.17	41.7	0%	Cannabinoids (wt%)	3.9%
Max THC	0.107	1.07		Limit of Quantitation (LOQ) = 0.0097 wt%	
Max CBD	3.86	38.6		Limit of Detection (LOD) = 0.0032 wt%	

**Ratio of Total CBD to THC 36.0:1**

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:  $\text{Max THC} = (0.877 \times \text{THCA}) + \text{THC}$ . 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.

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

Analyst: CJS

Test Date: 3/18/2021

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.

**93007-HM**

Symbol	Metal	Conc. <sup>1</sup> (µg/kg)	RL	Use Limits <sup>2</sup> (µg/kg)		Status
				All	Ingestion	
As	Arsenic	ND	50.0	200	1,500	PASS
Cd	Cadmium	ND	50.0	200	500	PASS
Hg	Mercury	ND	50.0	100	1,500	PASS
Pb	Lead	ND	50.0	500	1,000	PASS

1) ND = None detected above the indicated Reporting Limit (RL)

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.

**MB1: Microbiological Contaminants [WI-10-09]**

Analyst: MM

Test Date: 3/12/2021

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.

**93007-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: MM

Test Date: 3/13/2021

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.

**93007-MB2**

Test ID	Analysis	Results	Units	Limits*	Status
93007-ECPT	E. coli (O157)	Negative	NA	Non Detected	PASS
93007-SPT	Salmonella	Negative	NA	Non Detected	PASS

Note: All recorded pathogenic bacteria tests passed.

**TP: Terpenes Profile [WI-10-27]**

Analyst: AEG

Test Date: 3/19/2021

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.

**93007-TP**

Compound	CAS	Conc. (wt%)	Conc. (ppm)	Qualitative Profile
alpha-pinene	80-56-8	0.440	4,400	
camphene	79-92-5	0.0032	31.5	
sabinene*	3387-41-5	0.0067	67.4	
beta-myrcene	123-35-3	0.0303	303	
beta-pinene	127-91-3	0.0411	411	
alpha-phellandrene	99-83-2	0.0032	32.1	
delta-3-carene	13466-78-9	0.0064	63.8	
alpha-terpinene	99-86-5	<RL	<RL	
alpha-ocimene	502-99-8	<RL	<RL	
D-limonene	138-86-3	1.46	14,600	
p-cymene	99-87-6	0.0362	362	
cis-beta-ocimene	3338-55-4	ND	ND	
eucalyptol	470-82-6	ND	ND	
gamma-terpinene	99-85-4	0.0344	344	
terpinolene	586-62-9	0.0024	24.1	
linalool	78-70-6	ND	ND	
L-fenchone*	7787-20-4	ND	ND	
isopulegol	89-79-2	ND	ND	
menthol*	89-78-1	ND	ND	
geraniol	106-24-1	ND	ND	
beta-caryophyllene	87-44-5	0.0166	166	
alpha-humulene	6753-98-6	0.0022	22.1	
cis-nerolidol	3790-78-1	ND	ND	
trans-nerolidol	40716-66-3	ND	ND	
guaial	489-86-1	ND	ND	
caryophyllene oxide	1139-30-6	ND	ND	
alpha-bisabolol	23089-26-1	ND	ND	

Total Terpene: 2.1 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.

**END OF REPORT**