



Certificate ID: **86541**

Received: **9/8/20**

Scan QR Code for authenticity



**Loon Lab Extracts & Research**

**3334 Aldrich Ave S**

**Minneapolis, MN 55408**

**Attn: Gabriel Hanson**

Client Sample ID: **LL-1000rem-001**

Lot Number: **LL-1000rem-001**

Matrix: **Tincture/Infused Oil - MCT Oil**

Authorization:

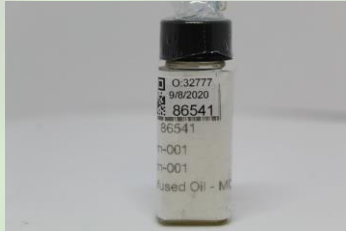
Chris Hudalla, Chief Science Officer

Signature:



Date:

9/21/2020



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: 9/16/2020*

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.

**86541-CN**

ID	Weight %	Concentration (mg/mL)		
D9-THC	0.135	1.24		
THCV	ND	ND		
CBD	4.07	37.5		
CBDV	0.0285	0.263		
CBG	0.0319	0.294		
CBC	0.141	1.30		
CBN	ND	ND		
THCA	ND	ND		
CBDA	0.140	1.29		
CBGA	ND	ND		
D8-THC	ND	ND		
exo-THC	ND	ND		
Total	4.54	41.9	0%	Cannabinoids (wt%) 4.1%
Max THC	0.135	1.24		
Max CBD	4.19	38.7		

**Ratio of Total CBD to THC 31.2:1**

Limit of Quantitation (LOQ) = 0.0114 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.

**HM: Heavy Metal Analysis [WI-10-13]***Analyst: CJS**Test Date: 9/15/2020*

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.

**86541-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 to Lowest Limits of Detection (LLD)

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.

**END OF REPORT**