

Certificate of Analysis

Company: Mad River Botanicals
 410 Butternut Hill Rd
 Waitsfield, VT 05673

Sample ID: 1500mg Massage Butter B12

Lot: N/A

Report Date: 12/21/2022

Matrix: Other

Date Analyzed: 12/19/2022

Customer ID: 210119-0

Date Sampled: N/A

Analyst: 011

Grower License #: #50_2022_00000111

Date Received: 12/2/2022

Report ID: C221202AV

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	0.11	0.01
CBDA	0.0008	<LOQ	<LOQ
CBGA	0.0008	0.20	0.02
CBG	0.0019	1.74	0.17
CBD	0.0019	11.39	1.14
THCV	0.0021	<LOQ	<LOQ
CBN	0.0013	0.12	0.01
Δ9-THC	0.0020	<LOQ	<LOQ
Δ8-THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	<LOQ	<LOQ
CBC	0.0024	0.50	0.05
Total THC		<LOQ	<LOQ
Total CBD		11.39	1.14
Total Cannabinoids		14.07	1.41

<LOQ
Total THC

1.14%
Total CBD

1.41%
Total Cannabinoids

<LOQ
Δ9-THC

N/A
Percent Moisture

N/A
THC : CBD Ratio

Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:
 Total THC = (THCA x 0.877) + Δ9-THC Total CBD = (CBDA x 0.877) + CBD
 Ratio of Total CBD: Total THC Reagent Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement.
 Δ9-THC MU = ±0.005% Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.



This report shall not be reproduced except in full without approval of the laboratory. This is to provide assurance that parts of a report are not taken out of context. Results apply to the samples as received.

Certified by: *Luke E. M.*
 Luke Emerson Mason (Laboratory Director, Bia Diagnostics)