



Certificate of Analysis

Company: Mad River Botanicals Sample ID: 20mg CBD Elderberry Lemon Gumdrop

410 Butternut Hill Rd Lot: G34 Report Date: 7/28/2023

Waitsfield, VT 05673 Matrix: Gummy Date Analyzed: 7/27/2023

Customer ID: 210119-0 Date Sampled: N/A Analyst: 011

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBDV	0.0012	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBDA	0.0008	0.19	0.02
CBGA	0.0008	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBG	0.0019	0.54	0.05
CBD	0.0019	8.59	0.86
THCV	0.0021	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
CBN	0.0013	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Δ9-ΤΗС	0.0020	0.31	0.03
Δ8-ΤΗС	0.0019	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
THC-A	0.0034	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
СВС	0.0024	0.46	0.05
Total THC		0.31	0.03
Total CBD		8.76	0.88
Total Cannabinoids		10.08	1.01

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:

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. $\Delta 9$ -THC MU = $\pm 0.005\%$ Total THC MU = $\pm 0.007\%$

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.

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0.03% Total THC

0.88%
Total CBD

1.01%

Total

Cannabinoids

0.03%

Δ9-ΤΗС

N/A
Percent
Moisture

1:28.4

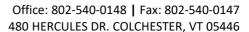
THC : CBD Ratio



Luke 4.M

Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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Summary of Results

20mg CBD Elderberry Lemon Gumdrop

Prepared for Mad River Botanicals

MANUFACTURER INFO DATE RECEIVED

Mad River Botanicals 7/24/2023

LOT NUMBER DATE ANALYZED

G34 7/27/2023

SERVING SIZE REPORT DATE

2.230g 7/28/2023

MATRIX ORIGINAL REPORT ID

Gummy C230724AL

TOTAL CANNABINOIDS

22.49 mg per serving

Cannabinoid Profile	Concentration (mg/g)	Weight (%)
CBC	0.46	0.05
CBD	8.59	0.86
CBDA	0.19	0.02
CBDV	Not Detected	Not Detected
CBDVA	Not Detected	Not Detected
CBG	0.54	0.05
CBGA	Not Detected	Not Detected
CBN	Not Detected	Not Detected
THC-A	Not Detected	Not Detected
THCV	Not Detected	Not Detected
Δ8-THC	Not Detected	Not Detected
Δ9-THC	0.31	0.03
Total CBD	8.76	0.88
Total THC	0.31	0.03
Total Cannabinoids	10.08	1.01

TOTAL THC

0.69 mg per serving

TOTAL CBD

19.52 mg per serving



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

Total CBD and total THC are calculated values.

This is not an official Certificate of Analysis

Not Detected = 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).

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