

Office: 802-540-0148 | Fax: 802-540-0147 480 HERCULES DR. COLCHESTER, VT 05446

## **Certificate of Analysis**

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

> 410 Butternut Hill Rd Lot: G27 Report Date: 8/15/2022

Waitsfield, VT 05673 Matrix: Gummv Date Analyzed: 8/9/2022

**Customer ID: 210119-0 Date Sampled: 8/4/2022** Analyst: KAC

Grower License #: #50 2022 00000111 Date Received: 8/8/2022 Report ID: C220808AC-2

## **Cannabinoid Summary**

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)	0.02%
CBDVA	0.0005	<loq< td=""><td><loq< td=""><td rowspan="2">Total THC</td></loq<></td></loq<>	<loq< td=""><td rowspan="2">Total THC</td></loq<>	Total THC
CBDV	0.0012	0.09	0.01	
CBDA	0.0008	0.07	0.01	
CBGA	0.0008	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
CBG	0.0019	0.15	0.01	1.11%
CBD	0.0019	10.16	1.02	
THCV	0.0021	<loq< td=""><td><loq< td=""><td>Total</td></loq<></td></loq<>	<loq< td=""><td>Total</td></loq<>	Total
CBN	0.0013	<loq< td=""><td><loq< td=""><td>Cannabinoid</td></loq<></td></loq<>	<loq< td=""><td>Cannabinoid</td></loq<>	Cannabinoid
Δ9-ΤΗС	0.0020	0.23	0.02	
Δ8-ΤΗС	0.0019	<loq< td=""><td><loq< td=""><td></td></loq<></td></loq<>	<loq< td=""><td></td></loq<>	
THC-A	0.0034	<loq< td=""><td><loq< td=""><td rowspan="2">2.202g</td></loq<></td></loq<>	<loq< td=""><td rowspan="2">2.202g</td></loq<>	2.202g
СВС	0.0024	0.41	0.04	
Total THC		0.23	0.02	Sample Weig
Total CBD		10.22	1.02	
Total Cannabinoids		11.10	1.11	

1.02% **Total CBD** 

0.02% Δ9-ΤΗС

1:44.9

THC: CBD Ratio

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

**Bia Diagnostics** 

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) +  $\Delta$ 9-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.  $\Delta 9$ -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.

Certified by:

Luke E.M Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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.

(802) 540-0148 laboratory@biadiagnostics.com Certificate Registration Number: CL\_50\_2021\_002