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CERTIFICATE OF ANALYSIS

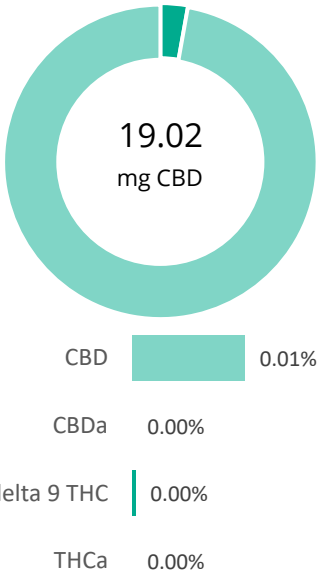
prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

Mango Lime CBD Sparkling Water - 20MG

Batch ID:	20421 - EXP 7/23/22	**Test ID:**	T000153757
Type:	Unit	**Submitted:**	07/27/2021 @ 10:15 AM
Test:	Potency	**Started:**	7/27/2021
Method:	TM14 (HPLC-DAD)	**Reported:**	7/27/2021

CANNABINOID PROFILE



Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.41	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.46	0.55	0.0
Cannabidiolic acid (CBDA)	0.39	ND	ND
Cannabidiol (CBD)	0.38	19.02	0.1
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.51	ND	ND
Cannabinolic Acid (CBNA)	0.29	ND	ND
Cannabinol (CBN)	0.13	ND	ND
Cannabigerolic acid (CBGA)	0.43	ND	ND
Cannabigerol (CBG)	0.10	0.40	0.0
Tetrahydrocannabivarinic Acid (THCVA)	0.36	ND	ND
Tetrahydrocannabivarin (THCV)	0.09	ND	ND
Cannabidivarinic Acid (CBDVA)	0.16	ND	ND
Cannabidivarin (CBDV)	0.09	ND	ND
Cannabichromenic Acid (CBCA)	0.16	ND	ND
Cannabichromene (CBC)	0.18	0.31	0.0
Total Cannabinoids		**20.28**	**0.1**
Total Potential THC**		0.55	0.0
Total Potential CBD**		19.02	0.1

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.
Total THC = THC + (THCa *(0.877)) and
Total CBD = CBD + (CBDa *(0.877))
ND = None Detected (Defined by Dynamic Range of the method)

NOTES:
# of Servings = 1, Sample Weight=355g

FINAL APPROVAL

Taylor Brevik 27-Jul-2021 5:12 PM	PREPARED BY / DATE	Ryan Weems 27-Jul-2021 5:13 PM	APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02

Certificate #4329.02

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CERTIFICATE OF ANALYSIS

prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

Mango Lime CBD Sparkling Water - 20MG

Batch ID:	20421 - EXP 7/23/22	**Test ID:**	T000153758
Type:	Concentrate	**Submitted:**	07/27/2021 @ 10:15 AM
Test:	Pesticides	**Started:**	7/29/2021
Method:	TM17 (UHPLC-QQQ LC MS/MS)	**Reported:**	8/2/2021

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	40 - 2195	ND*
Acetamiprid	37 - 2195	ND*
Abamectin	>272	ND*
Azoxystrobin	37 - 2195	ND*
Bifenazate	38 - 2195	ND*
Boscalid	35 - 2195	ND*
Carbaryl	37 - 2195	ND*
Carbofuran	37 - 2195	ND*
Chlorantraniliprole	39 - 2195	ND*
Chlorpyrifos	44 - 2195	ND*
Clofentezine	240 - 2195	ND*
Diazinon	245 - 2195	ND*
Dichlorvos	>262	ND*
Dimethoate	39 - 2195	ND*
E-Fenpyroximate	238 - 2195	ND*
Etofenprox	40 - 2195	ND*
Etoxazole	259 - 2195	ND*
Fenoxycarb	>40	ND*
Fipronil	39 - 2195	ND*
Flonicamid	44 - 2195	ND*
Fludioxonil	>261	ND*
Hexythiazox	30 - 2195	ND*
Imazalil	240 - 2195	ND*
Imidacloprid	45 - 2195	ND*
Kresoxim-methyl	41 - 2195	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	248 - 2195	ND*
Metalaxyl	36 - 2195	ND*
Methiocarb	36 - 2195	ND*
Methomyl	43 - 2195	ND*
MGK 264 1	138 - 2195	ND*
MGK 264 2	107 - 2195	ND*
Myclobutanil	38 - 2195	ND*
Naled	51 - 2195	ND*
Oxamyl	37 - 2195	ND*
Paclobutrazol	39 - 2195	ND*
Permethrin	251 - 2195	ND*
Phosmet	36 - 2195	ND*
Prophos	256 - 2195	ND*
Propoxur	36 - 2195	ND*
Pyridaben	273 - 2195	ND*
Spinosad A	25 - 2195	ND*
Spinosad D	68 - 2195	ND*
Spiromesifen	>239	ND*
Spirotetramat	>222	ND*
Spiroxamine 1	16 - 2195	ND*
Spiroxamine 2	20 - 2195	ND*
Tebuconazole	256 - 2195	ND*
Thiacloprid	40 - 2195	ND*
Thiamethoxam	38 - 2195	ND*
Trifloxystrobin	37 - 2195	ND*

* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL

Taylor Brevik
2-Aug-2021
12:05 PM

PREPARED BY / DATE

Sam Smith
2-Aug-2021
12:08 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: Beak and Skiff Research

4473 Cherry Valley Tpke
Lafayette, NY 13084

Mango Lime CBD Sparkling Water - 20MG

Batch ID:	20421 - EXP 7/23/22	**Test ID:**	T000153760
Type:	Unit	**Submitted:**	07/27/2021 @ 10:15 AM
Test:	Metals	**Started:**	7/28/2021
Method:	TM19 (ICP-MS)	**Reported:**	7/29/2021

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.052 - 5.23	ND
Cadmium	0.044 - 4.42	ND
Mercury	0.044 - 4.38	ND
Lead	0.044 - 4.37	ND

* ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

Ryan Weems
29-Jul-2021
1:29 PM

PREPARED BY / DATE

Sam Smith
29-Jul-2021
2:07 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

prepared for: BEAK AND SKIFF RESEARCH
4473 CHERRY VALLEY TPKE
LAFAYETTE, NY 13084

Mango Lime CBD Sparkling Water - 20MG

Batch ID:	20421 - EXP 7/23/22	**Test ID:**	T000153759
Matrix:	Finished Product	**Received:**	07/27/2021 @ 10:15 AM
Test:	Microbial Contaminants	**Started:**	7/27/2021
Method:	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	**Reported:**	8/2/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26 Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	**None Detected**
Total Coliforms*	TM-27 Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	**None Detected**
Total Yeast and Molds*	TM-24 Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	**None Detected**
E. coli	TM-28 Culture Plating	1 CFU/g	NA	NA	**Absent**
***E. coli* (STEC)**	TM-25 PCR	1 CFU/g	NA	NA	**Absent**
Salmonella	TM-25 PCR	1 CFU/g	NA	NA	**Absent**

** Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.*
Examples: 10^2 = 100 CFU
10^3 = 1,000 CFU
10^4 = 10,000 CFU
10^5 = 100,000 CFU

NOTES:
Free from visual mold, mildew, and foreign matter

DEFINITIONS:
CFU/g = Colony Forming Units per Gram.
LOD = Limit of Detection
ULOQ = Upper Limit of Quantitation
LLOQ = Lower Limit of Quantitation

FINAL APPROVAL

Brianne Maillot
2-Aug-2021
4:44 PM
PREPARED BY / DATE

Sarah Henning
2-Aug-2021
5:05 PM
APPROVED BY / DATE

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