DANU

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Green Apple Gummies
PRODUCT STRENGTH: 10 mg CBD / gummy
BATCH: 210120
BEST BY DATE: 12/2022
HEMP EXTRACT LOT: C0624-001

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Medium Pink	PASS
Odor	Internal	Sweet, strawberry, lemon	PASS
Appearance	Internal	Medium pink gummies with sugar coating in child proof container	PASS
Primary Package Eval.	Internal	Container clean and free of filth. Container caps tight and seals intact	PASS
Secondary Package Eval.	Internal	Labeling Compliance Checked, Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	HPLC-UV DAD	*NLT 10 mg / gummy	**11.72 mg**	PASS
Potency - D9-THC	HPLC-UV DAD	Complies with CDPHE 6 CCR for Broad Spectrum	**ND**	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	**Below LOQ**	PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	**Absent**	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	**Absent**	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	**Below LOQ**	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	**Below LOQ**	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	**Below LOQ**	PASS
Heavy Metals Panel	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	**Below LOQ**	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	**Below LOQ**	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR in effect during MFG*	**Below LOQ**	PASS

* *Level of Quantitation, † Parts Per Million † Part Per Billion CFU/g=Colony Forming Units per Gram
* Nothing Less Than Manufacture*
10^2=100 CFU
10^3=1,000 CFU

Quality Certified Keegan Schlittler 12/13/2021

Keegan Schlittler
Quality Assurance Manager

Date

botanacor

Official Compliance: Colorado
CERTIFICATE OF ANALYSIS

Green Apple 10 mg CBD BS Gummy

Batch ID or Lot Number:	Test:	Reported:
Composite	**Potency**	**12/7/21**
F210004/F210005/F210006		

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000179703	12/6/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)	12/02/2021 @ 12:45 PM	N/A

CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.004	0.013	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.005	0.014	ND	ND
Cannabidiolic acid (CBDA)	0.048	0.164	ND	ND
Cannabidiol (CBD)	0.046	0.160	0.378	3.78
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.055	0.175	ND	ND
Cannabinolic Acid (CBNA)	0.031	0.100	ND	ND
Cannabinol (CBN)	0.014	0.046	ND	ND
Cannabigerolic acid (CBGA)	0.046	0.147	ND	ND
Cannabigerol (CBG)	0.011	0.035	0.026*	0.26*
Tetrahydrocannabivarinic Acid (THCVA)	0.039	0.124	ND	ND
Tetrahydrocannabivarin (THCV)	0.010	0.032	ND	ND
Cannabidivarinic Acid (CBDVA)	0.020	0.068	ND	ND
Cannabidivarin (CBDV)	0.011	0.038	ND	ND
Cannabichromenic Acid (CBCA)	0.018	0.057	ND	ND
Cannabichromene (CBC)	0.019	0.062	ND	ND
Total Cannabinoids			**0.404**	**4.04**
Total Potential THC**			ND	ND
Total Potential CBD**			0.378	3.78

Notes

N/A

Jacob Miller
07-Dec-2021
01:28 PM

PREPARED BY / DATE

Ryan Weems
7-Dec-21
1:30 PM

APPROVED BY / DATE

Definitions

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)
* Indicates a value below the Limit of Quantitiation (LOQ) and above the Limit of Detection (LOD).
** 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))
Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.
ND = None Detected (Defined by Dynamic Range of the method)

CDPHE Certified

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.

Certificate #4329.02

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CERTIFICATE OF ANALYSIS

27093

Batch ID or Lot Number:	Test:	Reported:
C0624-001	**Pesticides**	**8/11/21**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000155504	8/10/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	08/05/2021 @ 12:37 PM	N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppm)	Result (ppm)	Compound	LOQ (ppm)	Result (ppm)	Compound	LOQ (ppm)	Result (ppm)
Acephate	54	ND	**Fenoxycarb**	54	ND	**Paclobutrazol**	54	ND
Acetamiprid	54	ND	**Fipronil**	54	ND	**Permethrin**	324	ND
Avermectin	324	ND	**Flonicamid**	54	ND	**Phosmet**	54	ND
Azoxystrobin	54	ND	**Fludioxonil**	324	ND	**Prophos**	324	ND
Bifenazate	54	ND	**Hexythiazox**	54	ND	**Propoxur**	54	ND
Boscalid	54	ND	**Imazalil**	324	ND	**Pyridaben**	324	ND
Carbaryl	54	ND	**Imidacloprid**	54	ND	**Spinosad A**	54	ND
Carbofuran	54	ND	**Kresoxim-methyl**	150	ND	**Spinosad D**	324	ND
Chlorantraniliprole	54	ND	**Malathion**	324	ND	**Spiromesifen**	324	ND
Chlorpyrifos	500	ND	**Metalaxyl**	54	ND	**Spirotetramat**	324	ND
Clofentezine	324	ND	**Methiocarb**	54	ND	**Spiroxamine 1**	54	ND
Diazinon	324	ND	**Methomyl**	54	ND	**Spiroxamine 2**	54	ND
Dichlorvos	324	ND	**MGK 264 1**	324	ND	**Tebuconazole**	324	ND
Dimethoate	54	ND	**MGK 264 2**	324	ND	**Thiacloprid**	54	ND
E-Fenpyroximate	324	ND	**Myclobutanil**	54	ND	**Thiamethoxam**	54	ND
Etofenprox	54	ND	**Naled**	54	ND	**Trifloxystrobin**	54	ND
Etoxazole	324	ND	**Oxamyl**	1500	ND			

Taylor Brevik
8/11/2021
4:08:00 PM

PREPARED BY / DATE

Sam Smith
8/11/2021
4:11:00 PM

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification

ppb = Parts per Billion

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ilac-MRA A2LA ACCREDITED

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CERTIFICATE OF ANALYSIS

Green Apple 10 mg CBD BS Gummy

Batch ID or Lot Number:	Test:	Reported:
Composite **210117, 210120**	**Microbial Contaminants**	**12/10/21**

Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000179998	12/7/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	12/07/2021 @ 09:30 AM	N/A

MICROBIAL CONTAMINANTS DETERMINATION

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 Mold*	TM-24, Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Brianne Maillot
12/10/2021
09:01:00 AM
PREPARED BY / DATE

Carly Bader
12/10/2021
09:20:00 AM
APPROVED BY / DATE

Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation
CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*
* 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

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27093

Batch ID or Lot Number:	Test:	Reported:
C0624-001	**Metals**	**8/13/21**

Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000155506	8/12/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM19 (ICP-MS): Heavy Metals (Colorado Panel)	08/05/2021 @ 12:37 PM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Arsenic	0.044 - 4.39	ND
Cadmium	0.048 - 4.78	ND
Mercury	0.044 - 4.38	ND
Lead	0.044 - 4.38	ND

Notes

Samantha Smith — Sam Smith, 13-Aug-21, 1:11 PM
PREPARED BY / DATE

Daniel Weidensaul — Daniel Weidensaul, 13-Aug-21, 1:14 PM
APPROVED BY / DATE

Definitions

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

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Batch ID or Lot Number:	Test:	Reported:
C0624-001	**Mycotoxins**	**8/12/21**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000155508	8/11/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	08/05/2021 @ 12:37 PM	N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Ochratoxin A	5.1 - 137.2	ND
Aflatoxin B1	1 - 35.5	ND
Aflatoxin B2	1.1 - 34.7	ND
Aflatoxin G1	1 - 34.9	ND
Aflatoxin G2	1.2 - 33.7	ND
Total Aflatoxins (B1, B2, G1, and G2)		ND

Notes
N/A

Taylor Brevik
12-Aug-21
2:47 PM
PREPARED BY / DATE

Sam Smith
12-Aug-21
2:50 PM
APPROVED BY / DATE

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

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Certificate #4329.02

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27093

Batch ID or Lot Number:	Test:	Reported:
C0624-001	**Residual Solvents**	**8/12/21**

Matrix:	Test ID:	Started:	USDA License:
N/A	T000155507	8/11/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM04 (GC-MS): Residual Solvents (Colorado Panel)	08/05/2021 @ 12:37 PM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	71 - 1415	*ND
Butanes (Isobutane, n-Butane)	133 - 2657	*ND
Methanol	49 - 984	*ND
Pentane	73 - 1454	*ND
Ethanol	78 - 1554	*ND
Acetone	80 - 1600	*ND
Isopropyl Alcohol	88 - 1766	*ND
Hexane	5 - 98	*ND
Ethyl Acetate	81 - 1624	*ND
Benzene	0 - 3	*ND
Heptanes	77 - 1543	*ND
Toluene	15 - 293	*ND
Xylenes (m,p,o-Xylenes)	108 - 2169	*ND

Notes

K. Winternheimer — Karen Winternheimer, 12-Aug-21, 3:07 PM
PREPARED BY / DATE

Ryan Weems, 12-Aug-21, 3:09 PM
APPROVED BY / DATE

Definitions

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

CDPHE Certified

Certificate #4329.02

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