DANU

CERTIFICATE OF ANALYSIS

PRODUCT NAME: Green Apple Gummies
PRODUCT STRENGTH: 10 mg CBD / gummy
BATCH: 220061
BEST BY DATE: 03/2023
HEMP EXTRACT LOT: C1026-001

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	Internal	Medium Green	PASS
Odor	Internal	Sweet, green apple	PASS
Appearance	Internal	Medium green 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	**12.4mg**	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 03/30/2022
Keegan Schlittler — Date
Quality Assurance Manager

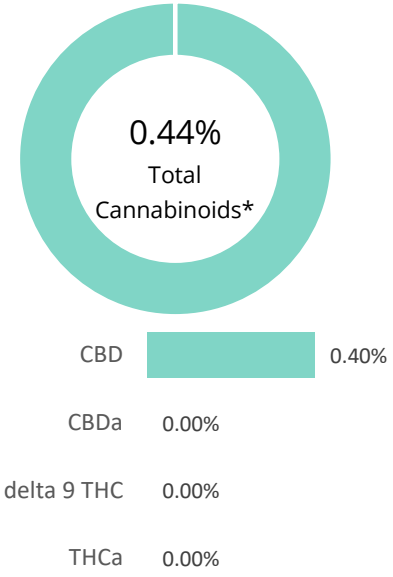
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CERTIFICATE OF ANALYSIS

Green Apple Gummy Composite Potency

Batch ID:	F220085-88, 98-100	**Test ID:**	T000197918
Type:	Concentrate	**Submitted:**	03/14/2022 @ 11:22 AM
Test:	Potency	**Started:**	3/15/2022
Method:	TM14 (HPLC-DAD)	**Reported:**	3/16/2022

CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.04	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.05	ND	ND
Cannabidiolic acid (CBDA)	0.05	ND	ND
Cannabidiol (CBD)	0.05	0.40	4.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.05	ND	ND
Cannabinolic Acid (CBNA)	0.03	ND	ND
Cannabinol (CBN)	0.01	ND	ND
Cannabigerolic acid (CBGA)	0.04	ND	ND
Cannabigerol (CBG)	0.01	0.04	0.4
Tetrahydrocannabivarinic Acid (THCVA)	0.04	ND	ND
Tetrahydrocannabivarin (THCV)	0.01	ND	ND
Cannabidivarinic Acid (CBDVA)	0.02	ND	ND
Cannabidivarin (CBDV)	0.01	ND	ND
Cannabichromenic Acid (CBCA)	0.02	ND	ND
Cannabichromene (CBC)	0.02	ND	ND
Total Cannabinoids		**0.44**	**4.4**
Total Potential THC**		ND	ND
Total Potential CBD**		0.40	4.0

% = % (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:
N/A

FINAL APPROVAL

Rvan Weems
16-Mar-2022
3:55 PM
PREPARED BY / DATE

Daniel Weidensaul
16-Mar-2022
3:59 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

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Certificate #4329.02

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CERTIFICATE OF ANALYSIS

27728

Batch ID or Lot Number:	Test:	Reported:
C1026-001	**Pesticides**	**11/17/21**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000176014	11/16/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	11/12/2021 @ 10:52 AM	N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	38	ND	**Fenoxycarb**	33	ND	**Paclobutrazol**	34	ND
Acetamiprid	31	ND	**Fipronil**	36	ND	**Permethrin**	294	ND
Avermectin	238	ND	**Flonicamid**	35	ND	**Phosmet**	32	ND
Azoxystrobin	33	ND	**Fludioxonil**	297	ND	**Prophos**	269	ND
Bifenazate	33	ND	**Hexythiazox**	31	ND	**Propoxur**	37	ND
Boscalid	29	ND	**Imazalil**	270	ND	**Pyridaben**	293	ND
Carbaryl	32	ND	**Imidacloprid**	33	ND	**Spinosad A**	27	ND
Carbofuran	34	ND	**Kresoxim-methyl**	150	ND	**Spinosad D**	52	ND
Chlorantraniliprole	25	ND	**Malathion**	272	ND	**Spiromesifen**	256	ND
Chlorpyrifos	500	ND	**Metalaxyl**	36	ND	**Spirotetramat**	273	ND
Clofentezine	288	ND	**Methiocarb**	34	ND	**Spiroxamine 1**	16	ND
Diazinon	279	ND	**Methomyl**	35	ND	**Spiroxamine 2**	20	ND
Dichlorvos	269	ND	**MGK 264 1**	151	ND	**Tebuconazole**	282	ND
Dimethoate	35	ND	**MGK 264 2**	112	ND	**Thiacloprid**	31	ND
E-Fenpyroximate	275	ND	**Myclobutanil**	30	ND	**Thiamethoxam**	35	ND
Etofenprox	32	ND	**Naled**	43	ND	**Trifloxystrobin**	33	ND
Etoxazole	282	ND	**Oxamyl**	1500	ND			

Samantha Smith
Sam Smith
11/17/2021
4:42:00 PM
PREPARED BY / DATE

Daniel Weidensaul
Daniel Weidensaul
11/17/2021
5:02:00 PM
APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

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Green Apple gummy composite micros

Batch ID or Lot Number:	Test:	Reported:	
220061	**Microbial Contaminants**	**3/17/22**	
Matrix:	Test ID:	Started:	USDA License:
Finished Product	T000197936	3/14/22	N/A
Status:	Methods:	Received:	Sampler ID:
N/A	TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	03/14/2022 @ 10:07 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
STEC	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent
Salmonella	TM-25, PCR	10^0 CFU/25 g	NA	NA	Absent

Notes

Free from visual mold, mildew, and foreign matter

Brett Hudson
3/17/2022
1:12:00 PM
PREPARED BY / DATE

Carly Bader
3/17/2022
1:40:00 PM
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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Batch ID or Lot Number:	Test:	Reported:
C1026-001	**Metals**	**11/17/21**

Matrix:	Test ID:	Started:	USDA License:
Unit Co	T000176016	11/16/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM19 (ICP-MS): Heavy Metals (Colorado Panel)	11/12/2021 @ 10:52 AM	N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.043 - 4.32	ND
Cadmium	0.044 - 4.40	ND
Mercury	0.043 - 4.34	ND
Lead	0.042 - 4.23	ND

Notes

Daniel Weidensaul
17-Nov-21
1:38 PM
PREPARED BY / DATE

Sam Smith
17-Nov-21
1:41 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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Batch ID or Lot Number:	Test:	Reported:
C1026-001	**Mycotoxins**	**11/18/21**

Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000176018	11/17/21	N/A

Status:	Method:	Received:	Sampler ID:
N/A	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	11/12/2021 @ 10:52 AM	N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)
Ochratoxin A	3.4 - 136.1	ND
Aflatoxin B1	1 - 33.6	ND
Aflatoxin B2	1 - 33.4	ND
Aflatoxin G1	1 - 32.6	ND
Aflatoxin G2	1 - 32.7	ND
Total Aflatoxins (B1, B2, G1, and G2)		ND

Notes

N/A

Samantha Smith
Sam Smith
18-Nov-21
8:42 AM
PREPARED BY / DATE

Courtney Richards
Courtney Richards
18-Nov-21
4:45 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:
C1026-001	**Residual Solvents**	**11/15/21**

Matrix:	Test ID:	Started:	USDA License:
N/A	T000176017	11/15/21	N/A

Status:	Methods:	Received:	Sampler ID:
N/A	TM04 (GC-MS): Residual Solvents (Colorado Panel)	11/12/2021 @ 10:52 AM	N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)
Propane	84 - 1689	*ND
Butanes (Isobutane, n-Butane)	170 - 3409	*ND
Methanol	65 - 1301	*ND
Pentane	86 - 1728	*ND
Ethanol	99 - 1986	*ND
Acetone	99 - 1979	*ND
Isopropyl Alcohol	118 - 2369	*ND
Hexane	6 - 122	*ND
Ethyl Acetate	105 - 2094	*ND
Benzene	0.2 - 4.1	*ND
Heptanes	95 - 1899	*ND
Toluene	20 - 393	*ND
Xylenes (m,p,o-Xylenes)	157 - 3139	*ND

Notes

Hannah Wright
15-Nov-21
4:02 PM
PREPARED BY / DATE

Sam Smith
15-Nov-21
4:08 PM
APPROVED BY / DATE

Definitions

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

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