

# STRAIGHT HEMP

## CERTIFICATE OF ANALYSIS

PRODUCT: Elderberry Gummies 30mg CBD  
BATCH/LOT: G1.2567  
INGREDIENTS: Sugar (organic), Water, Tapioca Syrup (organic), Elderberry Fruit Powder, Pectin (pectin, sucrose, citric acid, sodium citrate), Full Spectrum Hemp Extract, Natural Flavors (organic and natural), Fruit and Vegetable Juice for color (organic), Citric Acid, Hemp Terpenes.

PRODUCTION DATE: 06/2022  
EXPIRATION DATE: 06/2023

TEST	METHOD	SPECIFICATION	RESULTS
<b>Strength &amp; Composition</b>			
Identity	Organoleptic	Conforming	PASS
Identity	UPLC/UV	Chemical Fingerprint	PASS
Total Cannabidiol (CBD) <sup>i</sup>	UPLC/UV	9.2 – 13.8 mg/g	11.66 mg/g <sup>ii</sup>
Total Tetrahydrocannabinol (THC) <sup>iii</sup>	UPLC/UV	NMT 0.30%	0.035%
<b>Microbiological<sup>iv</sup></b>			
Total Plate Count	TM-26	NMT 10,000 cfu/g	PASS
Total Yeast & Mold	TM-24	NMT 1,000 cfu/g	PASS
Total Coliforms	TM-27	NMT 100 cfu/g	PASS
<i>E. coli</i>	TM-25	Absent/25g	PASS
<i>Salmonella</i>	TM-25	Absent/25g	PASS
<b>Mycotoxins</b>			
Alfatoxin B1	LCMS	NMT 20 ppb	PASS
Alfatoxin B2	LCMS	NMT 20 ppb	PASS
Alfatoxin G1	LCMS	NMT 20 ppb	PASS
Alfatoxin G2	LCMS	NMT 20 ppb	PASS
Ochratoxin	LCMS	NMT 20 ppb	PASS
<b>Heavy Metals<sup>v</sup></b>			
Arsenic (As)	ICP/MS	NMT 1.0 ppm	PASS
Cadmium (Cd)	ICP/MS	NMT 0.5 ppm	PASS
Lead (Pb)	ICP/MS	NMT 0.5 ppm	PASS
Mercury (Hg)	ICP/MS	NMT 0.1 ppm	PASS

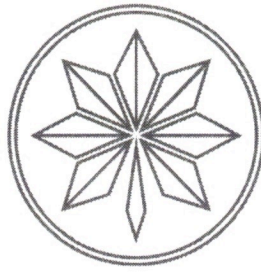
<sup>i</sup> Total CBD = CBD + (0.877\*CBDA) to account for loss of acid group during decarboxylation

<sup>ii</sup> Corresponds to **33.8mg per gummy**

<sup>iii</sup> Total THC = THC + (0.877\*THCA) to account for loss of acid group during decarboxylation

<sup>iv</sup> Microbiological limits based on USP, WHO, and/or NSF/ANSI

<sup>v</sup> Limits for As and Pb set below CA Prop 65 *no significant risk level*; Cd and Hg set below USP permitted daily exposure for 110lb body weight. Complies with 6 CCR 1010-21



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BATCH/LOT: G1.2567  
INGREDIENTS: Sugar (organic), Water, Tapioca Syrup (organic), Elderberry Fruit Powder, Pectin (pectin, sucrose, citric acid, sodium citrate), Full Spectrum Hemp Extract, Natural Flavors (organic and natural), Fruit and Vegetable Juice for color (organic), Citric Acid, Hemp Terpenes.


PRODUCTION DATE: 06/2022  
EXPIRATION DATE: 06/2023

TEST	METHOD	SPECIFICATION	RESULTS
Residual Solvents <sup>vi</sup>			
Acetone	GC-MS	Below MRL	PASS
Benzene	GC-MS	Below MRL	PASS
Butanes	GC-MS	Below MRL	PASS
Ethanol	GC-MS	NMT 5,000 ppm	PASS
Ethyl Acetate	GC-MS	Below MRL	PASS
Heptanes	GC-MS	Below MRL	PASS
Hexane	GC-MS	Below MRL	PASS
Isopropyl Alcohol	GC-MS	Below MRL	PASS
Methanol	GC-MS	Below MRL	PASS
Pentane	GC-MS	Below MRL	PASS
Propane	GC-MS	Below MRL	PASS
Toluene	GC-MS	Below MRL	PASS
Xylenes	GC-MS	Below MRL	PASS
Pesticides Multi-residue panel	UPLC-MS/MS	Below MRL <sup>vii</sup>	PASS

NMT = Not More Than

MRL = Method Reporting Limit

n/e = not established

  
David Cole  
Director of Quality

8/18/22  
Date

<sup>vi</sup> 21 solvent panel may also include: 1,1-Dichloroethene, 1,2-Dichloroethane, Acetonitrile, Chloroform, Ethyl Ether, Ethylene Oxide, Methylene Chloride, Trichloroethylene.

<sup>vii</sup> 50 residue panel


Prepared for:


**30mg CBD plus Elderberry Gummy**
**Straight Hemp**

Batch ID or Lot Number: <b>G1.2567</b>	Test: <b>Potency</b>	Reported: <b>7/15/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000213768	Started: 7/14/22	USDA License: N/A
Status: Active	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	Received: 07/12/2022 @ 10:50 AM	Sampler ID: N/A

**CANNABINOID PROFILE**

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.011	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.004	0.012	0.035	0.35	
Cannabidiolic acid (CBDA)	0.025	0.073	ND	ND	
Cannabidiol (CBD)	0.024	0.071	1.166	11.66	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.026	0.079	ND	ND	
Cannabinolic Acid (CBNA)	0.015	0.045	ND	ND	
Cannabinol (CBN)	0.007	0.021	ND	ND	
Cannabigerolic acid (CBGA)	0.022	0.066	ND	ND	
Cannabigerol (CBG)	0.005	0.016	0.031	0.31	
Tetrahydrocannabivarinic Acid (THCVA)	0.019	0.056	ND	ND	
Tetrahydrocannabivarin (THCV)	0.005	0.014	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.010	0.030	ND	ND	
Cannabidivarin (CBDV)	0.006	0.017	ND	ND	
Cannabichromenic Acid (CBCA)	0.008	0.025	ND	ND	
Cannabichromene (CBC)	0.009	0.028	0.038	0.38	
<b>Total Cannabinoids</b>			<b>1.270</b>	<b>12.70</b>	
Total Potential THC**			0.035	0.35	
Total Potential CBD**			1.166	11.66	


 Jacob Miller  
 15-Jul-22  
 1:45 PM


 Karen Winternheimer  
 15-Jul-22  
 1:48 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

\*\* 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)

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.



CDPHE Certified



Certificate #4329.02




Prepared for:


**30mg CBD plus Elderberry Gummy**
**Straight Hemp**

Batch ID or Lot Number: <b>G1.2567</b>	Test: <b>Microbial Contaminants</b>	Reported: <b>7/15/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Finished Product	Test ID: T000213771	Started: 7/12/22	USDA License: N/A
Status: Active	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial	Received: 07/12/2022 @ 10:50 AM	Sampler ID: N/A

**MICROBIAL CONTAMINANTS DETERMINATION**

Contaminant	Method	LOD	QUANTITATION RANGE	Result	Notes
<b>Total Aerobic Count*</b>	TM-26, Culture Plating	10 <sup>2</sup> CFU/g	2.0x10 <sup>3</sup> - 3.0x10 <sup>5</sup> CFU/g	<LLOQ	Free from visual mold, mildew, and foreign matter
<b>Total Coliforms*</b>	TM-27, Culture Plating	10 <sup>1</sup> CFU/g	2.0x10 <sup>2</sup> - 3.0x10 <sup>4</sup> CFU/g	None Detected	
<b>Total Yeast and Mold*</b>	TM-24, Culture Plating	10 <sup>1</sup> CFU/g	2.0x10 <sup>2</sup> - 3.0x10 <sup>4</sup> CFU/g	None Detected	
<b>STEC</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	N/A	Absent	
<b>Salmonella</b>	TM-25, PCR	10 <sup>0</sup> CFU/25 g	N/A	Absent	

 Brett Hudson  
7/15/2022  
10:02:00 AM

 Eden Thompson-Wright  
7/15/2022  
10:23:00 AM

PREPARED BY / DATE

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<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 100,000 CFU

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CDPHE Certified



Certificate #4329.02



## Certificate of Analysis

Straight Hemp  
 4927 SW 41<sup>st</sup> Blvd, Ste 40-50  
 Gainesville, FL 32608  
 Phone: 970-214-7814

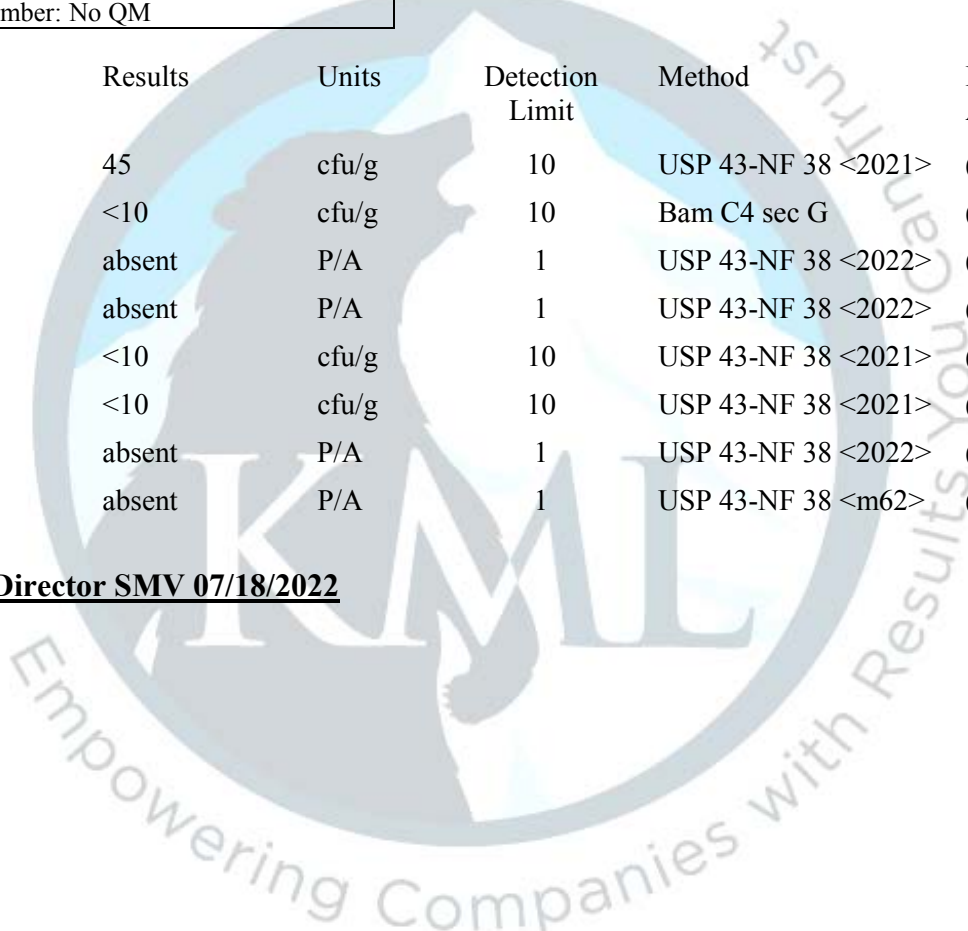
Invoice Number: 22.0899  
 PO Number:  
 Received Date: 07/13/2022  
 Number of Samples: 01  
 Project Name: Routine Testing

### Microbiology Report:

Lab #: 22-6691	Sample Lot: G1.2567	Sample Date:
Sample Name: 30mg CBD plus Elderberry Gummy	Additional ID:	Plated Date: 07/13/2022
Qualifying Material Number: No QM		

Test Performed	Results	Units	Detection Limit	Method	Date Analyzed
Aerobic Plate Count	45	cfu/g	10	USP 43-NF 38 <2021>	07/16/2022
Coliforms	<10	cfu/g	10	Bam C4 sec G	07/14/2022
<i>E. coli</i>	absent	P/A	1	USP 43-NF 38 <2022>	07/16/2022
<i>Staph aureus</i>	absent	P/A	1	USP 43-NF 38 <2022>	07/18/2022
Yeast	<10	cfu/g	10	USP 43-NF 38 <2021>	07/18/2022
Mold	<10	cfu/g	10	USP 43-NF 38 <2021>	07/17/2022
Salmonella	absent	P/A	1	USP 43-NF 38 <2022>	07/14/2022
<i>Pseudo. aeruginosa</i>	absent	P/A	1	USP 43-NF 38 <m62>	07/16/2022

**Approved By: QA Director SMV 07/18/2022**



**Confidential**

Page 1 of 2

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Note: On this date, this material met the specifications designated above, and is **not known if statistically representative of the lot evaluated on a routine basis**. This information is not intended to relieve the purchaser from its responsibility to determine the suitability of this material for purchaser's purposes, to comply with all laws and regulations regarding the safe use of this material. [nd = none detected above the listed detection limit](#)



Prepared for:

**30mg CBD plus Elderberry Gummy****Straight Hemp**

Batch ID or Lot Number: <b>G1.2567</b>	Test: <b>Mycotoxins</b>	Reported: <b>7/15/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000213774	Started: 7/14/22	USDA License: N/A
Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 07/12/2022 @ 10:50 AM	Sampler ID: N/A

**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.8 - 123.4	ND	N/A
Aflatoxin B1	1 - 32.2	ND	
Aflatoxin B2	1 - 32.3	ND	
Aflatoxin G1	1 - 32.5	ND	
Aflatoxin G2	1.2 - 32	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

Sam Smith  
15-Jul-22  
9:29 AM

PREPARED BY / DATE

Jacob Miller  
15-Jul-22  
9:31 AM

APPROVED BY / DATE

**Definitions**

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

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

Prepared for:

**30mg CBD plus Elderberry Gummy**
**Straight Hemp**


Batch ID or Lot Number: <b>G1.2567</b>	Test: <b>Metals</b>	Reported: <b>7/14/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Unit Co	Test ID: T000213772	Started: 7/13/22	USDA License: N/A
Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 07/12/2022 @ 10:50 AM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.045 - 4.52	ND	
Cadmium	0.046 - 4.55	ND	
Mercury	0.052 - 5.25	ND	
Lead	0.043 - 4.25	ND	


 Kayla Phye  
 14-Jul-22  
 4:20 PM

PREPARED BY / DATE


 Daniel Weidensaul  
 14-Jul-22  
 4:22 PM

APPROVED BY / DATE

**Definitions**

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

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Certificate #4329.02


Prepared for:


**30mg CBD plus Elderberry Gummy**
**Straight Hemp**

Batch ID or Lot Number: <b>G1.2567</b>	Test: <b>Residual Solvents</b>	Reported: <b>7/14/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: N/A	Test ID: T000213773	Started: 7/14/22	USDA License: N/A
Status: Active	Methods: TM04 (GC-MS): Residual Solvents	Received: 07/12/2022 @ 10:50 AM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	52 - 1049	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	111 - 2217	*ND	
<b>Methanol</b>	43 - 869	*ND	
<b>Pentane</b>	62 - 1242	*ND	
<b>Ethanol</b>	63 - 1263	>1263	
<b>Acetone</b>	70 - 1393	*ND	
<b>Isopropyl Alcohol</b>	75 - 1500	*ND	
<b>Hexane</b>	4 - 85	*ND	
<b>Ethyl Acetate</b>	71 - 1423	*ND	
<b>Benzene</b>	0.1 - 2.9	*ND	
<b>Heptanes</b>	69 - 1374	*ND	
<b>Toluene</b>	13 - 257	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	95 - 1894	*ND	


 Jacob Miller  
 14-Jul-22  
 5:24 PM


 Daniel Weidensaul  
 14-Jul-22  
 5:24 PM

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**Definitions**

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

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.



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DEA No. RA0571996  
FL License # CMTL-0003  
CLIA No. 10D1094068

# Certificate of Analysis

Compliance Test

**STRAIGHT HEMP**  
5135 W 58TH AVE, UNIT 5  
ARVADA, CO 80002

Batch # G1.2567  
Batch Date: 2022-07-27  
Extracted From: Hemp

Test Reg State: Florida

Order # STR220727-010001  
Order Date: 2022-07-27  
Sample # AADE204

Sampling Date: 2022-07-28  
Lab Batch Date: 2022-07-28  
Completion Date: 2022-08-02

Initial Gross Weight: 13.740 g  
Net Weight: 11.481 g

Number of Units: 1  
Net Weight per Unit: 11481.000 mg



Product Image

Residual Solvents  
**Passed**



## Residual Solvents - FL (CBD)

Specimen Weight: 312.400 mg

**Passed**  
SOP13.039 (GCMS)

Dilution Factor: 1.000

Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)	Analyte	LOD (ppm)	LOQ (ppm)	Action Level (ppm)	Result (ppm)
1,1-Dichloroethane	0.0094	0.16	8	<LOQ	Heptane	0.0013	1.39	5000	<LOQ
1,2-Dichloroethane	0.0003	0.04	5	<LOQ	Hexane	0.068	1.17	290	<LOQ
Acetone	0.015	2.08	5000	<LOQ	Isopropyl alcohol	0.0048	1.39	500	<LOQ
Acetonitrile	0.06	1.17	410	<LOQ	Methanol	0.0005	0.69	3000	<LOQ
Benzene	0.0002	0.02	2	<LOQ	Methylene chloride	0.0029	2.43	600	<LOQ
Butanes	0.4167	2.5	2000	<LOQ	Pentane	0.037	2.08	5000	<LOQ
Chloroform	0.0001	0.04	60	<LOQ	Propane	0.031	5.83	2100	<LOQ
Ethanol	0.0021	2.78	5000	888.879	Toluene	0.0009	2.92	890	<LOQ
Ethyl Acetate	0.0012	1.11	5000	<LOQ	Total Xylenes	0.0001	2.92	2170	<LOQ
Ethyl Ether	0.0049	1.39	5000	<LOQ	Trichloroethylene	0.0014	0.49	80	<LOQ
Ethylene Oxide	0.0038	0.1	5	<LOQ					

Xueli Gao Lab Toxicologist  
Ph.D., DABT

Aixia Sun Lab Director/Principal Scientist  
D.H.Sc., M.Sc., B.Sc., MT (AAB)



Definitions and Abbreviations used in this report: Total CBD = CBD + (CBD-A \* 0.877), \*Total CBDV = CBDV + (CBDVA \* 0.87), Total THC = THCA-A \* 0.877 + Delta 9 THC, Total THCV = THCV + (THCVA \* 0.87), CBG Total = (CBGA \* 0.877) + CBG, CBN Total = (CBNA \* 0.877) + CBN, Total CBC = CBC + (CBCA \* 0.877), Total THC-O-Acetate = Delta 8 THC-O-Acetate + Delta 9 THC-O-Acetate, Other Cannabinoids Total = Total Cannabinoids - All the listed cannabinoids on the summary section, Total Detected Cannabinoids = Delta6a10a-THC + Delta8-THC + Total CBN + CBT + Delta8-THCV + Total CBG + Total CBD + Total THCV + CBL + Total THC + Total CBC + Total CBDV + Delta10-THC + Total THC-O-Acetate, Analyte Details above show the Dry Weight Concentrations unless specified as 12% moisture concentration. (mg/ml) = Milligrams per Milliliter, LOQ = Limit of Quantitation, LOD = Limit of Detection, Dilution = Dilution Factor (ppb) = Parts per Billion, (%) = Percent, (cfu/g) = Colony Forming Unit per Gram (cfu/g) = Colony Forming Unit per Gram, LOD = Limit of Detection, (µg/g) = Microgram per Gram (ppm) = Parts per Million, (ppm) = (µg/g), (aw) = aw (area ratio) = Area Ratio, (mg/Kg) = Milligram per Kilogram

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Prepared for:

**30mg CBD plus Elderberry Gummy**
**Straight Hemp**

Batch ID or Lot Number: <b>G1.2567</b>	Test: <b>Pesticides</b>	Reported: <b>7/18/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000213770	Started: 7/15/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 07/12/2022 @ 10:50 AM	Sampler ID: N/A

**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	41	ND	Fenoxycarb	42	ND	Paclobutrazol	42	ND
Acetamiprid	41	ND	Fipronil	38	ND	Permethrin	271	ND
Abamectin	207	ND	Flonicamid	51	ND	Phosmet	43	ND
Azoxystrobin	43	ND	Fludioxonil	304	ND	Prophos	298	ND
Bifenazate	42	ND	Hexythiazox	41	ND	Propoxur	43	ND
Boscalid	48	ND	Imazalil	276	ND	Pyridaben	278	ND
Carbaryl	40	ND	Imidacloprid	47	ND	Spinosad A	34	ND
Carbofuran	39	ND	Kresoxim-methyl	150	ND	Spinosad D	47	ND
Chlorantraniliprole	45	ND	Malathion	291	ND	Spiromesifen	243	ND
Chlorpyrifos	500	ND	Metalaxyl	45	ND	Spirotetramat	306	ND
Clofentezine	285	ND	Methiocarb	41	ND	Spiroxamine 1	18	ND
Diazinon	284	ND	Methomyl	40	ND	Spiroxamine 2	25	ND
Dichlorvos	267	ND	MGK 264 1	174	ND	Tebuconazole	297	ND
Dimethoate	40	ND	MGK 264 2	106	ND	Thiacloprid	41	ND
E-Fenpyroximate	287	ND	Myclobutanil	14	ND	Thiamethoxam	45	ND
Etofenprox	42	ND	Naled	45	ND	Trifloxystrobin	44	ND
Etoxazole	282	ND	Oxamyl	1500	ND			

  
 Daniel Weidensaul  
 7/18/2022  
 10:22:00 AM

  
 Sam Smith  
 7/18/2022  
 10:25:00 AM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

LOQ = Limit of Quantification  
 ppb = Parts per Billion

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