

# STRAIGHT HEMP

## CERTIFICATE OF ANALYSIS

PRODUCT: Elderberry Gummies 30mg CBD  
BATCH/LOT: G1.2841  
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: 11/2022  
EXPIRATION DATE: 11/2023

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	11.81 mg/g <sup>ii</sup>
Total Tetrahydrocannabinol (THC) <sup>iii</sup>	UPLC/UV	NMT 0.30%	0.036%
<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

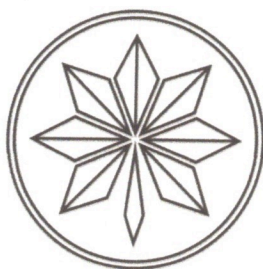
<sup>i</sup> Total CBD = CBD + (0.877\*CBDA) to account for loss of acid group during decarboxylation

<sup>ii</sup> Corresponds to **34.7mg 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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PRODUCTION DATE: 11/2022  
EXPIRATION DATE: 11/2023

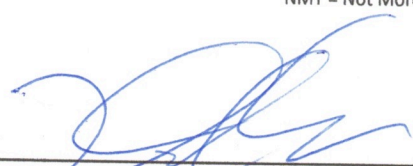
TEST	METHOD	SPECIFICATION	RESULTS
Residual Solvents <sup>vi</sup>			
Acetone	GC-MS	Below MRL	PASS
Benzene	GC-MS	Below MRL	PASS
Butanes	GC-MS	Below MRL	PASS
Ethanol	GC-MS	NMT 5,000 ppm	PASS
Ethyl Acetate	GC-MS	Below MRL	PASS
Heptanes	GC-MS	Below MRL	PASS
Hexane	GC-MS	Below MRL	PASS
Isopropyl Alcohol	GC-MS	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

<sup>vi</sup> NMT = Not More Than

MRL = Method Reporting Limit

n/e = not established

  
David Cole  
Director of Quality

1/25/23  
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>G1.2841</b>	Test: <b>Potency</b>	Reported: <b>11/30/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
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Matrix: Concentrate	Test ID: T000229030	Started: 11/30/22	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Standard Cannabinoid Analysis	Received: 11/29/2022 @ 12:40 PM	Sampler ID: N/A
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**CANNABINOID PROFILE**

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.015	0.051	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.017	0.058	0.036	0.36	
Cannabidiolic acid (CBDA)	0.023	0.062	ND	ND	
Cannabidiol (CBD)	0.022	0.061	1.181	11.81	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.018	0.064	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.037	ND	ND	
Cannabinol (CBN)	0.005	0.017	ND	ND	
Cannabigerolic acid (CBGA)	0.015	0.054	ND	ND	
Cannabigerol (CBG)	0.004	0.013	0.039	0.39	
Tetrahydrocannabivarinic Acid (THCVA)	0.013	0.045	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.012	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.010	0.026	ND	ND	
Cannabidivarin (CBDV)	0.005	0.014	ND	ND	
Cannabichromenic Acid (CBCA)	0.006	0.021	ND	ND	
Cannabichromene (CBC)	0.006	0.023	0.036	0.36	
<b>Total Cannabinoids</b>			<b>1.292</b>	<b>12.92</b>	
Total Potential THC**			0.036	0.36	
Total Potential CBD**			1.181	11.81	

Prepared by: *Sam Smith*  
Sam Smith  
30-Nov-22  
5:24 PM

Approved by: *Karen Winternheimer*  
Karen Winternheimer  
30-Nov-22  
5:30 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 SC Laboratories, Inc. SC Laboratories, Inc 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. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01



CDPHE Certified



Certificate #4329.02

Prepared for:

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

Batch ID or Lot Number: <b>G1.2841</b>	Test: <b>Metals</b>	Reported: <b>12/1/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Unit Co	Test ID: T000229034	Started: 11/30/22	USDA License: N/A
Status: Active	Method: TM19 (ICP-MS): Heavy Metals	Received: 11/29/2022 @ 12:40 PM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.046 - 4.64	ND	
Cadmium	0.043 - 4.34	ND	
Mercury	0.044 - 4.41	ND	
Lead	0.048 - 4.77	ND	

	Colin Hendrickson 1-Dec-22 10:03 AM		Sam Smith 1-Dec-22 10:08 AM
PREPARED BY / DATE		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>G1.2841</b>	Test: <b>Residual Solvents</b>	Reported: <b>12/1/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: N/A	Test ID: T000229035	Started: 12/1/22	USDA License: N/A
Status: Active	Methods: TM04 (GC-MS): Residual Solvents	Received: 11/29/2022 @ 12:40 PM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	89 - 1777	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	173 - 3461	*ND	
<b>Methanol</b>	58 - 1155	*ND	
<b>Pentane</b>	93 - 1862	*ND	
<b>Ethanol</b>	93 - 1854	>1854	
<b>Acetone</b>	93 - 1870	*ND	
<b>Isopropyl Alcohol</b>	99 - 1978	*ND	
<b>Hexane</b>	6 - 112	*ND	
<b>Ethyl Acetate</b>	96 - 1915	*ND	
<b>Benzene</b>	0.2 - 3.8	*ND	
<b>Heptanes</b>	99 - 1971	*ND	
<b>Toluene</b>	17 - 343	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	125 - 2505	*ND	

*Samantha Smith*  
Sam Smith  
1-Dec-22  
6:37 PM

*K Winternheimer*  
Karen Winternheimer  
1-Dec-22  
6:41 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

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

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Certificate #4329.02

**EMSL Analytical, Inc.**

5700 Memorial Highway, Suite 122, Tampa, FL 33615  
 Phone/Fax: (813)280-8752 / (813)280-8753  
[www.EMSL.com](http://www.EMSL.com) [www.FoodTestingLab.com](http://www.FoodTestingLab.com) [www.ShelfLifeStudy.com](http://www.ShelfLifeStudy.com)

EMSL Order #: **932207244**  
 Customer ID: **SHMP75**  
 Customer PO:

Attn: **David Cole**  
**Straight Hemp**  
**4927 SW 41st Blvd**  
**Suite 40-50**  
**Gainesville, FL 32608**

Phone: **970-214-7814**  
 Fax: **Not Available**

Project: **G1.2841**

Date Collected: **11/28/2022**  
 Date Received: **11/29/2022**  
 Date Analyzed: **12/1/2022**

Report Date: 12/1/2022

Revision: R0

**Food Microbiology Analytical Report**

**Lab Sample #:** 932207244-0001

**Sample Identification:** 30 mg CBD plus Elderberry Gummy - G1.2841

<b>Test Parameter</b>	<b>Result</b>	<b>Detection Limit</b>	<b>Methods</b>	<b>Comment</b>
<i>Aerobic Plate Count</i>	80 CFU / mL	10 CFU / mL	PF-AOAC990.12	
<i>Yeast &amp; Mold</i>	<10 CFU / mL	10 CFU / mL	PF-AOAC997.02	
<i>Total Coliform</i>	<10 CFU / mL	10 CFU / mL	PF-AOAC991.14, 998.08	
<i>E. coli</i>	<10 CFU / mL	10 CFU / mL	PF-AOAC991.14, 998.08	
<i>Staphylococcus aureus</i>	<10 CFU / mL	10 CFU / mL	PF-AOAC2003.07, 2003.08, 2003.11	



**EMSL Analytical, Inc.**

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[www.EMSL.com](http://www.EMSL.com) [www.FoodTestingLab.com](http://www.FoodTestingLab.com) [www.ShelfLifeStudy.com](http://www.ShelfLifeStudy.com)

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Attn: **David Cole**  
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**Gainesville, FL 32608**

Project: **G1.2841**

Phone: **970-214-7814**  
Fax: **Not Available**

Date Collected: **11/28/2022**  
Date Received: **11/29/2022**  
Date Analyzed: **12/1/2022**

## Signature Page

Report Date

12/1/2022

Report Revision

R0

Revision Comments

Initial Report

Gerald Iannuzzi, Laboratory Manager

or other approved signatory

## About us



EMSL Analytical, Inc. offers a full line of analytical solutions for over 30 years across North America. For more information about our nationally accredited locations, vast line of testing services, and our food safety solutions please visit [www.EMSL.com](http://www.EMSL.com) or call (800) 220-3675.



## Disclaimers

Presence / Absence (P/A) tests are enrichment-based and thus will not have a strict detection limit calculation, for the purposes of determining the sensitivity to apply, the amount of sample tested is listed. The term "None Detected" or "Absent" denotes that the microorganism / group was not recovered at or above the listed detection limit, but does not necessarily denote "zero level" or absence of that parameter.

**NOTE:** These results are valid only for those samples analyzed, and only for those samples collected in accordance with appropriate methodology as determined by the customer. This report is not intended for FDA Import Detention Reporting, and has not been prepared in compliance with FDA Import / Export regulations. The results herein do not denote or represent a medical or clinical diagnosis or conclusion. In the event that sample(s) were submitted in opened, used, non-sterile or otherwise adulterated condition, EMSL shall not be responsible or liable. Only data derived directly from analysis conducted by the laboratory has been validated. The results reported herein are for summary purposes only and do not represent any opinion or conclusion on the part of EMSL Analytical, Inc. "Analysis Date" represents latest date of analysis for samples included on report. Analysis dates for all samples are available upon request. Samples received in good condition, unless otherwise noted. This report may not be reproduced, except in full, without written approval by an authorized EMSL representative.

Prepared for:

**30mg CBD plus Elderberry Gummy**

**Straight Hemp**

Batch ID or Lot Number: <b>G1.2841</b>	Test: <b>Mycotoxins</b>	Reported: <b>12/7/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000229036	Started: 12/6/22	USDA License: N/A
Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 11/29/2022 @ 12:40 PM	Sampler ID: N/A

**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	4.4 - 122.8	ND	N/A
Aflatoxin B1	0.9 - 31.3	ND	
Aflatoxin B2	0.8 - 31.3	ND	
Aflatoxin G1	0.9 - 31.4	ND	
Aflatoxin G2	1 - 31.6	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

*Samantha Smith*  
Sam Smith  
7-Dec-22  
8:08 AM

PREPARED BY / DATE

*K Winterheimer*  
Karen Winterheimer  
7-Dec-22  
8:09 AM

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>G1.2841</b>	Test: <b>Pesticides</b>	Reported: <b>12/6/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000229033	Started: 12/5/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 11/29/2022 @ 12:40 PM	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	48	ND
Acetamiprid	42	ND	Fipronil	41	ND	Permethrin	294	ND
Abamectin	335	ND	Flonicamid	47	ND	Phosmet	40	ND
Azoxystrobin	42	ND	Fludioxonil	267	ND	Prophos	291	ND
Bifenazate	40	ND	Hexythiazox	39	ND	Propoxur	42	ND
Boscalid	44	ND	Imazalil	251	ND	Pyridaben	305	ND
Carbaryl	43	ND	Imidacloprid	47	ND	Spinosad A	32	ND
Carbofuran	42	ND	Kresoxim-methyl	150	ND	Spinosad D	49	ND
Chlorantraniliprole	43	ND	Malathion	290	ND	Spiromesifen	290	ND
Chlorpyrifos	500	ND	Metalaxyl	38	ND	Spirotetramat	278	ND
Clofentezine	279	ND	Methiocarb	44	ND	Spiroxamine 1	18	ND
Diazinon	276	ND	Methomyl	41	ND	Spiroxamine 2	22	ND
Dichlorvos	280	ND	MGK 264 1	166	ND	Tebuconazole	285	ND
Dimethoate	38	ND	MGK 264 2	116	ND	Thiacloprid	42	ND
E-Fenpyroximate	295	ND	Myclobutanil	38	ND	Thiamethoxam	39	ND
Etofenprox	43	ND	Naled	42	ND	Trifloxystrobin	43	ND
Etoxazole	306	ND	Oxamyl	1500	ND			

*Samantha Smith*  
Sam Smith  
12/6/2022  
11:07:00 AM

*K Winterheimer*  
Karen Winterheimer  
12/6/2022  
11:11:00 AM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

LOQ = Limit of Quantification  
ppb = Parts per Billion

Testing results are based solely upon the sample submitted to SC Laboratories, Inc. SC Laboratories, Inc 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. All decision rulings are in accordance with the MED and results uploaded to METRC. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited A2LA Certificate Number 4329.01



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