

Sample Name: **ODA Pre-Harvest #1**  
 Tested for: **Hemp Pre-Harvest01**

**Flower used for Emerald Batch ID 0100-082120-EMD**

Laboratory ID: 19H0035-01

Matrix: Plant Tissue

Sample Metric ID: N/A

Lot # N/A

Batch RFID: N/A

Batch Size: N/A

License: AG-R1050145IHG

Date Sampled: 08/05/19 00:00

Date Accepted: 08/06/19



## Potency Analysis

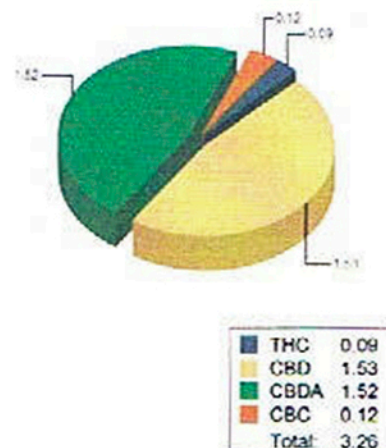
Date Extracted: 08/09/19

Date Analyzed: 08/09/19

Analysis Method/SOP: Potency

\* - ORELAP certified analyte

Cannabinoids	% weight	mg/g	LOQ (%)
<b>Total THC</b> ((THCA)*0.877)+09)	0.09	0.9	0.03
<b>Total CBD</b> ((CBDA)*0.877)+CBD)	2.86	28.6	0.03
d9-THC (d9-Tetrahydrocannabinol)*	0.09	0.9	0.04
d8-THC (d8-Tetrahydrocannabinol)*	< LOQ	< LOQ	0.04
THCA (d9-Tetrahydrocannabinolic Acid)*	< LOQ	< LOQ	0.06
CBD (Cannabidiol)*	1.53	15.3	0.03
CBDA (Cannabidiolic Acid)*	1.52	15.2	0.06
CBN (Cannabinol)*	< LOQ	< LOQ	0.03
CBG (Cannabigerol)*	< LOQ	< LOQ	0.04
CBGA (Cannabigerolic Acid)	< LOQ	< LOQ	0.04
CBDV (Cannabidivarin)*	< LOQ	< LOQ	0.04
CBDVA (Cannabidivarinic Acid)	< LOQ	< LOQ	0.04
CBC (Cannabichromene)*	0.12	1.2	0.04
THCV (Tetrahydrocannabivarin)	< LOQ	< LOQ	0.04
<b>Total Cannabinoids</b>	<b>3.26</b>	<b>32.6</b>	<b>0.03</b>



<LOQ - Results below the Limit of Quantitation - Compound not detected

*Breeanna Hamilton*  
 Breeanna Hamilton For Brian Weigel  
 Lab Director

These results relate only to the sample included on this report. The report may not be reproduced except in full, without the written permission of SC Laboratories. Samples tested in accordance with Oregon Administrative Rules, 1161 2009 Standard and SC Laboratories quality assurance plan unless otherwise noted.

**Order #:** BUT200821-010051      **Order Date:** 2020-08-21      **Collection Date:** 2020-08-31      **Report Date:** 2020-09-14

**Batch #:** 0100-082120-EMD  
**Sample #:** AAAM414  
**Specimen Type:** CBD/HEMP Flower & Plants (Inhalation - Heated)  
**Extracted From:** Hemp  
**Description:** Strain Hemp Flower Pre-roll

**Initial Gross Weight:** 140 g  
**Method:** SOP-3



<b>Heavy Metals</b> Passed	<b>Mycotoxins</b> Passed	<b>Pesticides</b> Passed
<b>Moisture</b> Tested	<b>Listeria Monocytogenes</b> Passed	<b>Pathogenic</b> Passed



The photos on this report are of a sample collected by the lab and may vary from the final packaging.

### Heavy Metals (Passed)

(ICP-MS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
<b>Arsenic (As)</b>	1500	<LOQ	100	<b>Cadmium (Cd)</b>	500	<LOQ	100	<b>Lead (Pb)</b>	500	<LOQ	100
<b>Mercury (Hg)</b>	3000	<LOQ	100								

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

**Xueli Gao**  
 Lab Toxicologist  
 Ph.D., DABT

**Aixia Sun**  
 Principal Scientist  
 D.H.Sc., M.Sc., B.Sc., MT (AAB)

*This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.*

**721 Cortaro Drive**  
**Sun City Center, FL - 33573**

**P: +1 (866) 762-8379**  
**F: +1 (813) 634-4538**

**E: info@acslabcannabis.com**  
**http://www.acslabcannabis.com**

**License No. 800025015**  
**CLIA No. 10D1094068**

**Order #:** BUT200821-010051      **Order Date:** 2020-08-21      **Collection Date:** 2020-08-31      **Report Date:** 2020-09-14

**Batch #:** 0100-082120-EMD  
**Sample #:** AAAM414  
**Specimen Type:** CBD/HEMP Flower & Plants (Inhalation - Heated)  
**Extracted From:** Hemp  
**Description:** Strain Hemp Flower Pre-roll

**Initial Gross Weight:** 140 g  
**Method:** SOP-3



### Mycotoxins (Passed)

### (LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Aflatoxin B1	20	<LOQ	6	Aflatoxin B2	20	<LOQ	6	Aflatoxin G1	20	<LOQ	6
Aflatoxin G2	20	<LOQ	6	Ochratoxin A	20	<LOQ	12				

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Xueli Gao      Lab Toxicologist  
 Ph.D., DABT

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

*This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.*

721 Cortaro Drive  
 Sun City Center, FL - 33573

P: +1 (866) 762-8379  
 F: +1 (813) 634-4538

E: [info@acslabcannabis.com](mailto:info@acslabcannabis.com)  
<http://www.acslabcannabis.com>

License No. 800025015  
 CLIA No. 10D1094068

Order #: BUT200821-010051      Order Date: 2020-08-21      Collection Date: 2020-08-31      Report Date: 2020-09-14

Batch #: 0100-082120-EMD  
 Sample #: AAAM414  
 Specimen Type: CBD/HEMP Flower & Plants (Inhalation - Heated)  
 Extracted From: Hemp  
 Description: Strain Hemp Flower Pre-roll

Initial Gross Weight: 140 g  
 Method: SOP-3



## Pesticides FL V4 (Inhalable) (Passed)

(LCMS/API/GCMS)

Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)	Analyte	Action Level (ppb)	Result (ppb)	LOQ (ppb)
Abamectin	100	<LOQ	28.23	Acephate	100	<LOQ	30	Acequinocyl	100	<LOQ	48
Acetamiprid	100	<LOQ	30	Aldicarb	100	<LOQ	30	Azoxystrobin	100	<LOQ	10
Bifenazate	100	<LOQ	30	Bifenthrin	100	<LOQ	30	Boscalid	100	<LOQ	10
Captan	700	<LOQ	30	Carbaryl	500	<LOQ	10	Carbofuran	100	<LOQ	10
Chlorantraniliprole	1000	<LOQ	10	Chlordane	100	<LOQ	10	Chlorfenapyr	100	<LOQ	30
Chloromequat Chloride	1000	<LOQ	10	Chlorpyrifos	100	<LOQ	30	Clofentezine	200	<LOQ	30
Cypermethrin	500	<LOQ	30	Coumaphos	100	<LOQ	48	Cyfluthrin	500	<LOQ	30
Dichlorvos	100	<LOQ	30	Daminozide	100	<LOQ	30	Diazinon	100	<LOQ	30
Ethoprophos	100	<LOQ	30	Dimethoate	100	<LOQ	30	Dimethomorph	200	<LOQ	48
Fenhexamid	100	<LOQ	10	Etofenprox	100	<LOQ	30	Etoxazole	100	<LOQ	30
Fipronil	100	<LOQ	30	Fenoxycarb	100	<LOQ	30	Fenpyroximate	100	<LOQ	30
Hexythiazox	100	<LOQ	30	Fonicamid	100	<LOQ	30	Fludioxonil	100	<LOQ	48
Kresoxim Methyl	100	<LOQ	30	Imazalil	100	<LOQ	30	Imidacloprid	400	<LOQ	30
Methiocarb	100	<LOQ	30	Malathion	100	<LOQ	30	Metalaxyl	100	<LOQ	10
Mevinphos	100	<LOQ	10	Methomyl	100	<LOQ	30	methyl-Parathion	100	<LOQ	10
Oxamyl	500	<LOQ	30	Myclobutanil	100	<LOQ	30	Naled	250	<LOQ	30
Permethrin	100	<LOQ	30	Paclobutrazol	100	<LOQ	30	Pentachloronitrobenzene	150	<LOQ	10
Prallethrin	100	<LOQ	30	Phosmet	100	<LOQ	30	Piperonylbutoxide	3000	<LOQ	30
Pyrethrins	500	<LOQ	30	Propiconazole	100	<LOQ	30	Propoxur	100	<LOQ	30
Spinosad	100	<LOQ	30	Pyridaben	200	<LOQ	30	Spinetoram	200	<LOQ	10
Spiroxamine	100	<LOQ	30	Spiromesifen	100	<LOQ	30	Spirotetramat	100	<LOQ	30
Thiamethoxam	500	<LOQ	30	Tebuconazole	100	<LOQ	30	Thiacloprid	100	<LOQ	30
				Trifloxystrobin	100	<LOQ	30				

(ppb) = Parts per Billion, (ppb) = (µg/kg), , LOQ = Limit of Quantitation

Xueli Gao      Lab Toxicologist  
 Ph.D., DABT

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

*This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.*

721 Cortaro Drive  
 Sun City Center, FL - 33573

P: +1 (866) 762-8379  
 F: +1 (813) 634-4538

E: [info@acslabcannabis.com](mailto:info@acslabcannabis.com)  
<http://www.acslabcannabis.com>

License No. 800025015  
 CLIA No. 10D1094068

BUTTERFLY LLC  
1701 CALIFORNIA ST  
#LL 1015  
DENVER, CO 80202

# Certificate of Analysis

**ACS** | CANNABIS & HEMP  
LABORATORY | BEYOND COMPLIANCE

Order #: BUT200821-010051      Order Date: 2020-08-21      Collection Date: 2020-08-31      Report Date: 2020-09-14

Batch #: 0100-082120-EMD  
Sample #: AAAM414  
Specimen Type: CBD/HEMP Flower & Plants (Inhalation - Heated)  
Extracted From: Hemp  
Description: Strain Hemp Flower Pre-roll

Initial Gross Weight: 140 g  
Method: SOP-3



## Moisture (Tested)

(Moisture  
Meter)

Analyte	Result (%)
Moisture	9.390

(%) = Percent

## Listeria Monocytogenes (Passed)

(qPCR)

Analyte	Result
Listeria Monocytogenes	Absence in 1g

## Pathogenic SE (qPCR) (Passed)

(qPCR)

Analyte	Result (cfu/g)	Analyte	Result (cfu/g)
E.Coli	Absence	Salmonella	Absence

(cfu/g) = Colony Forming Unit per Gram

Xueli Gao      Lab Toxicologist  
Ph.D., DABT

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

*This report shall not be reproduced, without written approval, from ACS Laboratory. The results of this report relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Accredited by a third-party accrediting body as a competent testing laboratory pursuant to ISO/IEC 17025 of the International Organization for Standardization.*

721 Cortaro Drive  
Sun City Center, FL - 33573

P: +1 (866) 762-8379  
F: +1 (813) 634-4538

E: [info@acslabcannabis.com](mailto:info@acslabcannabis.com)  
<http://www.acslabcannabis.com>

License No. 800025015  
CLIA No. 10D1094068