



# Certificate of Analysis

SAMPLE:DA91024010-001

Harvest/Lot ID: N/A

Seed to Sale #N/A

Batch#: 19084

Sample Size: 15 ml

Ordered : 10/18/19

Sampled : 10/18/19

Completed: 10/29/19 Expires: 10/29/20

Sampling Method: SOP Client Method

**PASSED**

Oct 29, 2019 | KENTUCKY BOTANICAL CO.

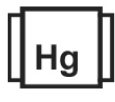
406 Fairfield Ave.  
BELLEVUE KY, USA 41073



PRODUCT IMAGE SAFETY RESULTS



Pesticides  
**PASSED**



Heavy Metals  
**PASSED**



Microbials  
**PASSED**



Mycotoxins  
**PASSED**



Residuals  
Solvents  
**PASSED**



Filtration  
**PASSED**



Water Activity  
**NOT TESTED**



Moisture  
**NOT TESTED**



Terpenes  
**TESTED**

MISC.

CANNABINOID RESULTS



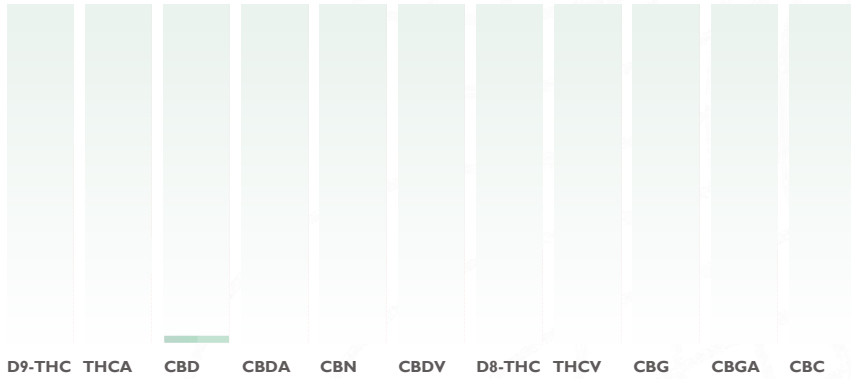
Total THC  
**0.063%**  
THC/Container : 18.90 mg



Total CBD  
**1.790%**  
CBD/Container : 537.00 mg

|             |              |             |    |    |             |          |
|-------------|--------------|-------------|----|----|-------------|----------|
| 0.063 % ND  | 1.790 % ND   | 0.012 % ND  | ND | ND | 0.023 % ND  | 0.062 %  |
| 0.630 mg ND | 17.900 mg ND | 0.120 mg ND | ND | ND | 0.230 mg ND | 0.620 mg |

**Filtration PASSED**



Cannabinoid Profile Test

Analyst: 450 Weight: 3.1022g Sample Prep: 2019-10-28 10:10:29 Extracted By: 574

Analysis Method -SOP.T.40.020, SOP.T.30.050

Analytical Batch -DA007433

| Reagent    | Dilution | Consums. ID |
|------------|----------|-------------|
| 102319.R15 | 400      | 76124-662   |
| 102319.R14 |          | SFN-BX-1025 |
|            |          | 849C4-849AK |
|            |          | 840C6-840H  |

Full spectrum cannabinoid analysis utilizing High Performance Liquid Chromatography with UV detection (HPLC-UV). (Method: SOP.T.30.050 for sample prep and Shimadzu High Sensitivity Method SOP.T.40.020 for analysis. LOQ for all cannabinoids is 1 mg/L).

Analyte Weight Sample Prep: Extracted By:  
584 1g 2019-10-28 05:10:08 584

Analysis Method -

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-2B/T Stereo Microscope is used for inspection.

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation

**Jorge Segredo**  
Lab Director  
State License # n/a  
ISO Accreditation # 97164



Signature

10/29/2019

Signed On



# Certificate of Analysis

**PASSED**
**KENTUCKY BOTANICAL CO.**

 406 Fairfield Ave.  
 BELLEVUE KY, USA  
 41073

Telephone: (859) 739-0240

Email: info@kybotanical.com

**Sample : DA91024010-001,**  
**Harvest/LOT ID: N/A,**
**Batch# : 19084**
**Sample Size : 15 ml**
**Ordered : 10/18/19**
**Sampled : 10/18/19**
**Completed : 10/29/19**
**Expires : 10/29/20**
**Sample Method : SOP Client Method**
**3**

**Terpenes**
**TESTED**
**Terpenes**
**TEST RESULT (%)**

|                     |       |
|---------------------|-------|
| ALPHA-CEDRENE       | ND    |
| ALPHA-HUMULENE      | ND    |
| ALPHA-PINENE        | ND    |
| ALPHA-TERPINENE     | ND    |
| BETA-MYRCENE        | ND    |
| BETA-PINENE         | ND    |
| BORNEOL             | ND    |
| CAMPHENE            | ND    |
| CAMPHOR             | ND    |
| CARYOPHYLLENE OXIDE | ND    |
| CEDROL              | ND    |
| ALPHA-BISABOLOL     | 0.067 |
| ISOPULEGOL          | ND    |
| CIS-NEROLIDOL       | ND    |
| 3-CARENE            | ND    |
| FENCHYL ALCOHOL     | ND    |
| HEXAHYDROTHYMOL     | ND    |
| EUCALYPTOL          | ND    |
| ISOBORNEOL          | ND    |
| FARNESENE           | ND    |
| FENCHONE            | ND    |
| GAMMA-TERPINENE     | ND    |
| GERANIOL            | ND    |
| GERANYL ACETATE     | ND    |
| GUAJOL              | 0.025 |
| LIMONENE            | ND    |
| LINALOOL            | ND    |
| NEROL               | ND    |
| OCIMENE             | ND    |
| ALPHA-PHELLANDRENE  | ND    |
| PULEGONE            | ND    |
| SABINENE            | ND    |
| SABINENE HYDRATE    | ND    |

**Terpenes**
**TEST RESULT (%)**

|                     |       |
|---------------------|-------|
| TERPINEOL           | ND    |
| TERPINOLENE         | ND    |
| TRANS-CARYOPHYLLENE | 0.030 |
| TRANS-NEROLIDOL     | ND    |
| VALENCENE           | ND    |


**Terpenes**
**TESTED**
**Analyst**  
 585

**Weight**  
 1.0993g

**Sample Prep :**  
 2019-10-24 04:10:40

**Extracted By :**  
 585

**Analysis Method -SOP.T.40.090**  
**Analytical Batch -DA007419**
**Reagent**
**Dilution**
**Consums. ID**

10

Terpenoid profile screening is performed using GC-MS with Liquid Injection (Gas Chromatography – Mass Spectrometer) which can screen 38 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC/MS.

**Total** 0.123

**Jorge Segredo**  
 Lab Director

 State License # n/a  
 ISO Accreditation # 97164



Signature

10/29/2019

Signed On



# Certificate of Analysis

**PASSED**
**KENTUCKY BOTANICAL CO.**
**Sample : DA91024010-001,**  
**Harvest/LOT ID: N/A,**

 406 Fairfield Ave.  
 BELLEVUE KY, USA  
 41073

**Telephone: (859) 739-0240**
**Email: info@kybotanical.com**
**Batch# : 19084**
**Sample Size : 15 ml**
**Ordered : 10/18/19**
**Sampled : 10/18/19**
**Completed : 10/29/19**
**Expires : 10/29/20**
**Sample Method : SOP Client Method**
**4**

**Pesticides**
**PASSED**

| Pesticides          | LOQ   | Action Level | Units | Result | Pesticides            | LOQ   | Action Level | Units | Result |
|---------------------|-------|--------------|-------|--------|-----------------------|-------|--------------|-------|--------|
| CHLORDANE           | 0.010 | 0.1          | ppm   | ND     | METHIOCARB            | 0.010 | 0.05         | ppm   | ND     |
| CAPTAN              | 0.100 | 0.7          | ppm   | ND     | METHOMYL              | 0.010 | 0.1          | ppm   | ND     |
| DIMETHOATE          | 0.010 | 0.1          | ppm   | ND     | DIAZANON              | 0.010 | 0.1          | ppm   | ND     |
| ABAMECTIN B1A       | 0.020 | 0.1          | ppm   | ND     | MEVINPHOS             | 0.010 | 0.1          | ppm   | ND     |
| CIS-PERMETHRIN      | 0.050 | 0.1          | ppm   | ND     | MYCLOBUTANIL          | 0.010 | 0.1          | ppm   | ND     |
| SPINETORAM          | 0.010 | 0.1          | PPM   | ND     | NALED                 | 0.010 | 0.25         | ppm   | ND     |
| ACEPHATE            | 0.010 | 0.1          | ppm   | ND     | OXAMYL                | 0.010 | 0.5          | ppm   | ND     |
| DIMETHOMORPH        | 0.005 | 0.2          | ppm   | ND     | PACLOBUTRAZOL         | 0.010 | 0.1          | ppm   | ND     |
| ETHOPROPHOS         | 0.010 | 0.1          | ppm   | ND     | TRANS-PERMETHRIN      | 0.050 | 0.1          | ppm   | ND     |
| ACEQUINOCYL         | 0.050 | 0.1          | ppm   | ND     | PHOSMET               | 0.010 | 0.1          | ppm   | ND     |
| ACETAMIPRID         | 0.010 | 0.1          | ppm   | ND     | PIPERONYL BUTOXIDE    | 0.010 | 3            | ppm   | ND     |
| ETOFENPROX          | 0.010 | 0.1          | ppm   | ND     | PRALLETHRIN           | 0.050 | 0.1          | ppm   | ND     |
| ALDICARB            | 0.020 | 0.1          | ppm   | ND     | PROPICONAZOLE         | 0.010 | 0.1          | ppm   | ND     |
| ETOXAZOLE           | 0.010 | 0.1          | ppm   | ND     | PROPOXUR              | 0.010 | 0.1          | ppm   | ND     |
| AZOXYSTROBIN        | 0.010 | 0.01         | ppm   | ND     | PYRETHRIN I           | 0.010 | 0.5          | ppm   | ND     |
| FENHEXAMID          | 0.010 | 0.1          | ppm   | ND     | PYRIDABEN             | 0.010 | 0.2          | ppm   | ND     |
| BIFENAZATE          | 0.010 | 0.1          | ppm   | ND     | SPINOSAD (SPINOSYN A) | 0.010 | 0.1          | ppm   | ND     |
| FENOXYCARB          | 0.010 | 0.1          | ppm   | ND     | SPINOSAD (SPINOSYN D) | 0.010 | 0.1          | ppm   | ND     |
| FENPYROXIMATE       | 0.010 | 0.1          | ppm   | ND     | SPIROMESIFEN          | 0.010 | 0.1          | ppm   | ND     |
| BIFENTHRIN          | 0.010 | 0.1          | ppm   | ND     | SPIROTETRAMAT         | 0.020 | 0.1          | ppm   | ND     |
| CARBARYL            | 0.010 | 0.5          | ppm   | ND     | SPIROXAMINE           | 0.010 | 0.1          | ppm   | ND     |
| FIPRONIL            | 0.020 | 0.1          | ppm   | ND     | TEBUCONAZOLE          | 0.010 | 0.1          | ppm   | ND     |
| FLONICAMID          | 0.010 | 0.1          | ppm   | ND     | THIACLOPRID           | 0.010 | 0.1          | ppm   | ND     |
| CARBOFURAN          | 0.010 | 0.1          | ppm   | ND     | THIAMETHOXAM          | 0.010 | 0.5          | ppm   | ND     |
| CHLORANTRANILIPROLE | 0.010 | 1            | ppm   | ND     | TRIFLOXYSTROBIN       | 0.010 | 0.1          | ppm   | ND     |
| FLUDIOXONIL         | 0.010 | 0.1          | ppm   | ND     |                       |       |              |       |        |
| HEXYTHIAZOX         | 0.010 | 0.1          | ppm   | ND     |                       |       |              |       |        |
| CHLORFENAPYR        | 0.010 | 0.1          | ppm   | ND     |                       |       |              |       |        |
| IMAZALIL            | 0.010 | 0.1          | ppm   | ND     |                       |       |              |       |        |
| CHLORPYRIFOS        | 0.010 | 0.1          | ppm   | ND     |                       |       |              |       |        |
| IMIDACLOPRID        | 0.010 | 0.4          | ppm   | ND     |                       |       |              |       |        |
| CLOFENTEZINE        | 0.010 | 0.2          | ppm   | ND     |                       |       |              |       |        |
| KRESOXIM-METHYL     | 0.010 | 0.1          | ppm   | ND     |                       |       |              |       |        |
| COUMAPHOS           | 0.005 | 0.1          | ppm   | ND     |                       |       |              |       |        |
| MALATHION           | 0.010 | 0.2          | ppm   | ND     |                       |       |              |       |        |
| CYPERMETHRIN        | 0.020 | 0.5          | ppm   | ND     |                       |       |              |       |        |
| DAMINOZIDE          | 0.020 | 0.1          | ppm   | ND     |                       |       |              |       |        |
| METALAXYL           | 0.010 | 0.02         | ppm   | ND     |                       |       |              |       |        |
| DICHLORVOS          | 0.050 | 0.1          | ppm   | ND     |                       |       |              |       |        |

| Pesticides                                  |                   |                                      |                       | PASSED |
|---|-------------------|--------------------------------------|-----------------------|--------|
| Analyst<br>795                              | Weight<br>1.0179g | Sample Prep :<br>2019-10-28 04:10:26 | Extracted By :<br>795 |        |
| Analysis Method -SOP.T.30.065, SOP.T.40.065 |                   |                                      |                       |        |
| Analytical Batch - DA00746 I                |                   |                                      |                       |        |
| Reagent                                     | Dilution          | Consums. ID                          |                       |        |
|   | 10                |                                      |                       |        |

SOP.T.30.065, SOP.T.40.065

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion. Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation

**Jorge Segredo**  
 Lab Director

 State License # n/a  
 ISO Accreditation # 97164



Signature

10/29/2019

Signed On



# Certificate of Analysis


**PASSED**
**KENTUCKY BOTANICAL CO.**

 406 Fairfield Ave.  
 BELLEVUE KY, USA  
 41073

Telephone: (859) 739-0240

Email: info@kybotanical.com

**Sample : DA91024010-001,**  
**Harvest/LOT ID: N/A,**
**Batch# : 19084**
**Sample Size : 15 ml**
**Ordered : 10/18/19**
**Sampled : 10/18/19**
**Completed : 10/29/19**
**Expires : 10/29/20**
**Sample Method : SOP Client Method**
**5**

**Residual Solvents**
**PASSED**

**Residual Solvents**
**PASSED**

| SOLVENT              | ACTION LEVEL (PPM) | PASS/FAIL | RESULT |
|----------------------|--------------------|-----------|--------|
| PROPANE              | 2100               | PASS      | ND     |
| BUTANES (N-BUTANE)   | 2000               | PASS      | ND     |
| ETHYLENE OXIDE       | 5                  | PASS      | ND     |
| METHANOL             | 250                | PASS      | ND     |
| ETHANOL              | 5000               | PASS      | ND     |
| PENTANES (N-PENTANE) | 750                | PASS      | ND     |
| ETHYL ETHER          | 500                | PASS      | ND     |
| ACETONE              | 750                | PASS      | ND     |
| 2-PROPANOL           | 500                | PASS      | ND     |
| ACETONITRILE         | 60                 | PASS      | ND     |
| METHYLENE CHLORIDE   | 125                | PASS      | ND     |
| N-HEXANE             | 250                | PASS      | ND     |
| ETHYL ACETATE        | 400                | PASS      | ND     |
| BENZENE              | 1                  | PASS      | ND     |
| HEPTANE              | 500                | PASS      | ND     |
| TOLUENE              | 150                | PASS      | ND     |
| CHLOROFORM           | 2                  | PASS      | ND     |
| 1,2-DICHLOROETHANE   | 2                  | PASS      | ND     |
| TRICHLOROETHYLENE    | 25                 | PASS      | ND     |
| 1,1-DICHLOROETHENE   | 8                  | PASS      | ND     |
| TOTAL XYLENES        | 150                | PASS      | ND     |

**Analyst** 850    **Weight** 0.0242g    **Sample Prep :** 2019-10-24 02:10:30    **Extracted By :** 850

**Analysis Method -SOP.T.40.032**  
**Analytical Batch -DA007440**

| Reagent | Dilution | Consums. ID                      |
|---------|----------|----------------------------------|
|         | 1        | 00268767<br>161040-1<br>24151941 |

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 34 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).

This report shall not be reproduced, unless in its entirety, without written approval from Kaycha Labs. This report is an Kaycha Labs certification. The results relate only to the material or product analyzed. Test results are confidential unless explicitly waived otherwise. Void after 1 year from test end date. Cannabinoid content of batch material may vary depending on sampling error. IC=In-control QC parameter, NC=Non-controlled QC parameter, ND=Not Detected, NA=Not Analyzed, ppm=Parts Per Million, ppb=Parts Per Billion, Limit of Detection (LoD) and Limit Of Quantitation (LoQ) are terms used to describe the smallest concentration that can be reliably measured by an analytical procedure. RPD=Reproducibility of two measurements. Action Levels are State determined thresholds for human safety for consumption and/or inhalation

**Jorge Segredo**  
 Lab Director

 State License # n/a  
 ISO Accreditation # 97164

Signature

10/29/2019

Signed On



# Certificate of Analysis

**PASSED**
**KENTUCKY BOTANICAL CO.**

 406 Fairfield Ave.  
 BELLEVUE KY, USA  
 41073

**Telephone:** (859) 739-0240

**Email:** info@kybotanical.com

**Sample : DA91024010-001,**  
**Harvest/LOT ID: N/A,**
**Batch# :** 19084

**Sample Size :** 15 ml

**Ordered :** 10/18/19

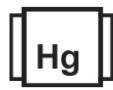
**Sampled :** 10/18/19

**Completed :** 10/29/19


**Expires :** 10/29/20

**Sample Method :** SOP Client Method

**6**

**Mycotoxins** **PASSED**

**Heavy Metals** **PASSED**

| Analyte          | Result | Action Level |
|------------------|--------|--------------|
| AFLATOXIN G2     | ND     |              |
| AFLATOXIN G1     | ND     |              |
| AFLATOXIN B2     | ND     |              |
| AFLATOXIN B1     | ND     |              |
| OCHRATOXIN A+    | ND     | 0.02         |
| TOTAL AFLATOXINS | 0.000  | 0.02         |

**Analysis Method -SOP.T.30.065, SOP.T.40.065**
**Analytical Batch -DA007462**

**Microbials** **PASSED**

| Analyte                       | Result                 |
|-------------------------------|------------------------|
| ASPERGILLUS_FLAVUS            | not present in 1 gram. |
| ASPERGILLUS_FUMIGATUS         | not present in 1 gram. |
| ASPERGILLUS_NIGER             | not present in 1 gram. |
| ASPERGILLUS_TERREUS           | not present in 1 gram. |
| ESCHERICHIA_COLI_SHIGELLA_SPP | not present in 1 gram. |
| SALMONELLA_SPECIFIC_GENE      | not present in 1 gram. |

| Reagent | Dilution | Consums. ID |
|---------|----------|-------------|
|         | 50       |             |

| Metal   | Result | Action Level |
|---------|--------|--------------|
| ARSENIC | 0.012  | 0.2          |
| CADMIUM | 0.014  | 0.2          |
| LEAD    | 0.050  | 0.5          |
| MERCURY | ND     | 0.1          |

**Analysis Method -SOP.T.40.050, SOP.T.30.052**
**Analytical Batch -DA007416**

Heavy Metals screening is performed using ICP-MS (Inductively Coupled Plasma – Mass Spectrometer) which can screen down to below single digit ppb concentrations for regulated heavy metals using Method SOP.T.30.052 Sample Preparation for Heavy Metals Analysis via ICP-MS and SOP.T.40.050 Heavy Metals Analysis via ICP-MS.

Signature

10/29/2019

Signed On