kaycha LABS

673 N. Bardstown Rd
Mount Washington, KY, 40047, US

Kaycha Labs
2
N/A
Matrix: Flower

# Certificate of Analysis

**Sample:MO01013044-001**
**Harvest/Lot ID: zone 8**
**Seed to Sale #**N/A
**Batch Date :**N/A
**Batch#:** 2
**Sample Size Received:** 10 gram
**Retail Product Size:** 10
**Ordered** : 10/12/20
**Sampled** : 10/12/20
**Completed:** 10/20/20 Expires: 10/20/21
**Sampling Method:** SOP Client Method

## Oct 20, 2020 | Made By A Farmer

8275 Scio Church rd
Ann Arbor, MI, 48103, US

MADE BY A FARMER
mbaf.land

**PASSED**



PRODUCT IMAGE

SAFETY RESULTS

| Pesticides | Heavy Metals | Microbials | Mycotoxins | Residuals Solvents | Filth | Water Activity | Moisture |
|---|---|---|---|---|---|---|---|
| PASSED | PASSED | PASSED | PASSED | NOT TESTED | PASSED | NOT TESTED | PASSED |

MISC.

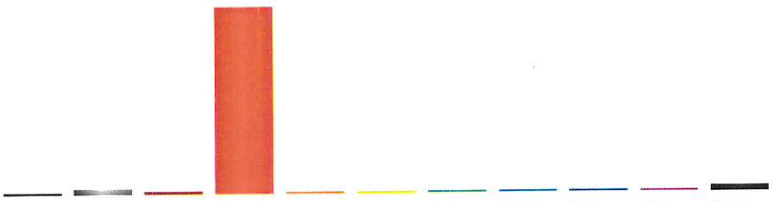
Terpenes
TESTED

## CANNABINOID RESULTS

**Total THC**
**0.337%**

**Total CBD**
**9.943%**

**Total Cannabinoids**
**12.147%**



| | D9-THC | THCA | CBD | CBDA | D8-THC | THCV | CBN | CBDV | CBC | CBG | CBGA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ND | 0.385% | 0.260% | 11.042 % | ND | ND | ND | ND | 0.087% | 0.040% | 0.333% |
| | ND | 3.850 mg/g | 2.600 mg/g | 110.420 mg/g | ND | ND | ND | ND | 0.870 mg/g | 0.400 mg/g | 3.330 mg/g |
| LOD | 0.0001 % | 0.001 % | 0.0001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % |

### Cannabinoid Profile Test

| Analyzed by | Weight | Extraction date : | Extracted By : |
|---|---|---|---|
| 19 | 0.2609g | 10/15/20 04:10:46 | 19 |

**Analysis Method -**SOP.T.40.020, SOP.T.30.050 **Reviewed On -** 10/16/20 10:36:38 **Batch Date :** 10/15/20 16:14:59
**Analytical Batch -**MO001273POT **Instrument Used :** HPLC Potency Analyzer **Running On :**

| Reagent | Dilution | Consums. ID |
|---|---|---|
| | 40 | |

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). Measurement of Uncertainty: 2.7%

### Filth — PASSED

| Analyzed By | Weight | Extraction date | LOD(ppm) | Extracted By |
|---|---|---|---|---|
| 9 | 1g | NA | | NA |

**Analysis Method -**SOP.T.40.013 **Batch Date :** 10/13/20 14:26:29
**Analytical Batch -**MO001256FIL **Reviewed On -** 10/14/20 15:31:29
**Instrument Used :** Microscope
**Running On :**

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

### Moisture — PASSED

| Analyte | Analyzed by | Weight | Ext. date | LOD | A.L | Result |
|---|---|---|---|---|---|---|
| MOISTURE CONTENT | 9 | 1g | 10/13/20 | % | | 32.920 % |

**Analysis Method -**SOP.T.40.011 **Batch Date :** 10/13/20 14:28:05
**Analytical Batch -**MO001257MOI **Reviewed On -** 10/14/20 09:51:19
**Instrument Used :** Moisture Balance
**Running On :**



**David Greene**
Lab Director
State License # 19-05-02P
ISO Accreditation # 17025:2017 #97164

Signature

10/20/2020
Signed On

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Matrix : Flower

# Certificate of Analysis

**PASSED**

**Made By A Farmer**

8275 Scio Church rd
Ann Arbor, MI, 48103, US
**Telephone:** 7344763114
**Email:** ryan.valik@gmail.com

**Sample : MO01013044-001**
**Harvest/LOT ID: zone 8**
**Batch# :** 2
**Sampled :** 10/12/20
**Ordered :** 10/12/20
**Sample Size Received :** 10 gram
**Completed :** 10/20/20 **Expires:** 10/20/21
**Sample Method :** SOP Client Method



## Terpenes — TESTED

| Terpenes | LOD | Units | Result (%) |
|---|---|---|---|
| ALPHA-PHELLANDRENE | 0.005 | % | ND |
| FENCHONE | 0.01 | % | ND |
| GAMMA-TERPINENE | 0.005 | % | ND |
| GERANIOL | 0.005 | % | ND |
| GERANYL ACETATE | 0.01 | % | ND |
| GUAIOL | 0.005 | % | 0.024 |
| LIMONENE | 0.005 | % | 0.019 |
| LINALOOL | 0.01 | % | ND |
| NEROL | 0.005 | % | ND |
| OCIMENE | 0.005 | % | ND |
| PULEGONE | 0.005 | % | ND |
| SABINENE | 0.005 | % | ND |
| SABINENE HYDRATE | 0.01 | % | ND |
| TERPINEOL | 0.005 | % | ND |
| TERPINOLENE | 0.005 | % | ND |
| TRANS-CARYOPHYLLENE | 0.005 | % | 0.109 |
| TRANS-NEROLIDOL | 0.005 | % | ND |
| VALENCENE | 0.005 | % | ND |
| CEDROL | 0.005 | % | ND |
| ALPHA-HUMULENE | 0.005 | % | 0.034 |
| ALPHA-PINENE | 0.005 | % | 0.023 |
| ALPHA-TERPINENE | 0.005 | % | ND |
| BETA-MYRCENE | 0.005 | % | 0.141 |
| BETA-PINENE | 0.005 | % | 0.011 |
| BORNEOL | 0.01 | % | ND |
| CAMPHENE | 0.005 | % | ND |
| CAMPHOR | 0.01 | % | ND |
| CARYOPHYLLENE OXIDE | 0.005 | % | 0.010 |
| ALPHA-CEDRENE | 0.005 | % | ND |
| ALPHA-BISABOLOL | 0.005 | % | 0.036 |
| ISOPULEGOL | 0.01 | % | ND |

| Terpenes | LOD | Units | | Result (%) |
|---|---|---|---|---|
| CIS-NEROLIDOL | 0.005 | % | ND | ND |
| 3-CARENE | 0.005 | % | ND | ND |
| FENCHYL ALCOHOL | 0.005 | % | 0.005 | 0.005 |
| HEXAHYDROTHYMOL | 0.005 | % | ND | ND |
| EUCALYPTOL | 0.005 | % | ND | ND |
| ISOBORNEOL | 0.005 | % | ND | ND |

**Total** 0.412

## Terpenes — TESTED

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 18 | 0.984g | 10/14/20 01:10:14 | 18 |

**Analysis Method -SOP.T.40.090**
**Analytical Batch -MO001266TER** **Reviewed On - 10/15/20 10:16:09**
**Instrument Used : GCMS8050 with Liquid Handler**
**Running On :**
**Batch Date : 10/14/20 13:43:27**

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

Terpenoid profile screening is performed using GC-MS/MS TQ-8040 with Liquid Injection (Gas Chromatography – Mass Spectrometer Triple Quad) which can screen 37 terpenes using Method SOP.T.40.091 Terpenoid Analysis Via GC-MS/MS.



**David Greene**
Lab Director
State License # 19-05-02P
ISO Accreditation # 17025:2017 #97164

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**Telephone:** 7344763114
**Email:** ryan.valik@gmail.com

**Sample : MO01013044-001**
**Harvest/LOT ID: zone 8**
**Batch# :** 2
**Sampled :** 10/12/20
**Ordered :** 10/12/20
**Sample Size Received :** 10 gram
**Completed :** 10/20/20 **Expires:** 10/20/21
**Sample Method :** SOP Client Method



## Pesticides

PASSED

| Pesticides | LOD | Units | Action Level | Result |
|---|---|---|---|---|
| ABAMECTIN B1A | 0.020 | ppm | 0.5 | ND |
| ACEPHATE | 0.010 | ppm | 0.5 | ND |
| ACEQUINOCYL | 0.02 | ppm | 2 | ND |
| ACETAMIPRID | 0.010 | ppm | 0.2 | ND |
| ALDICARB | 0.020 | ppm | 0.4 | ND |
| AZOXYSTROBIN | 0.010 | ppm | 0.2 | ND |
| BIFENAZATE | 0.010 | ppm | 0.2 | ND |
| BIFENTHRIN | 0.010 | ppm | 0.2 | ND |
| BOSCALID | 0.005 | ppm | 0.4 | ND |
| CARBARYL | 0.010 | ppm | 0.2 | ND |
| CARBOFURAN | 0.010 | ppm | 0.2 | ND |
| CHLORANTRANILIPROLE | 0.010 | ppm | 0.2 | ND |
| CHLORPYRIFOS | 0.010 | ppm | 0.2 | ND |
| CLOFENTEZINE | 0.010 | ppm | 0.2 | ND |
| COUMAPHOS | 0.005 | ppm | 0.2 | ND |
| CYPERMETHRIN | 0.010 | ppm | 1 | ND |
| DAMINOZIDE | 0.010 | ppm | 1 | ND |
| DIAZANON | 0.010 | ppm | 0.2 | ND |
| DICHLORVOS | 0.050 | ppm | 0.1 | ND |
| DIMETHOATE | 0.010 | ppm | 0.2 | ND |
| DIMETHOMORPH | 0.005 | ppm | 0.1 | ND |
| ETHOPROPHOS | 0.010 | ppm | 0.2 | ND |
| ETOFENPROX | 0.010 | ppm | 0.4 | ND |
| ETOXAZOLE | 0.010 | ppm | 0.2 | ND |
| FENHEXAMID | 0.005 | ppm | 0.1 | ND |
| FENOXYCARB | 0.010 | ppm | 0.2 | ND |
| FENPYROXIMATE | 0.010 | ppm | 0.4 | ND |
| FIPRONIL | 0.020 | ppm | 0.4 | ND |
| FLONICAMID | 0.010 | ppm | 1 | ND |
| FLUDIOXONIL | 0.010 | ppm | 0.4 | ND |
| HEXYTHIAZOX | 0.010 | ppm | 1 | ND |
| IMAZALIL | 0.010 | ppm | 0.2 | ND |
| IMIDACLOPRID | 0.010 | ppm | 0.4 | ND |
| KRESOXIM-METHYL | 0.010 | ppm | 0.4 | ND |
| MALATHION | 0.010 | ppm | 0.2 | ND |
| METALAXYL | 0.010 | ppm | 0.2 | ND |
| METHIOCARB | 0.010 | ppm | 0.2 | ND |
| METHOMYL | 0.010 | ppm | 0.6 | ND |
| MEVINPHOS | 0.010 | ppm | 0.1 | ND |
| MYCLOBUTANIL | 0.010 | ppm | 0.2 | ND |
| NALED | 0.010 | ppm | 0.5 | ND |
| OXAMYL | 0.010 | ppm | 1 | ND |
| PACLOBUTRAZOL | 0.010 | ppm | 0.4 | ND |
| PERMETHRINS | 0.050 | ppm | 1 | ND |
| PHOSMET | 0.010 | ppm | 0.2 | ND |
| PIPERONYL BUTOXIDE | 0.010 | ppm | 3 | ND |
| PRALLETHRIN | 0.050 | ppm | 0.2 | ND |
| PROPICONAZOLE | 0.010 | ppm | 0.4 | ND |
| PROPOXUR | 0.010 | ppm | 0.2 | ND |
| PYRETHRIN I | 0.010 | ppm | 1 | ND |
| PYRIDABEN | 0.005 | ppm | 0.2 | ND |
| SPINETORAM | 0.005 | ppm | 0.5 | ND |
| SPINOSAD (SPINOSYN A) | 0.010 | ppm | 0.2 | ND |
| SPINOSAD (SPINOSYN D) | 0.010 | ppm | 0.2 | ND |
| SPIROMESIFEN | 0.010 | ppm | 0.2 | ND |
| SPIROTETRAMAT | 0.020 | ppm | 0.2 | ND |
| SPIROXAMINE | 0.010 | ppm | 0.4 | ND |
| TEBUCONAZOLE | 0.010 | ppm | 0.4 | ND |
| THIACLOPRID | 0.010 | ppm | 0.2 | ND |
| THIAMETHOXAM | 0.010 | ppm | 0.5 | ND |
| TRIFLOXYSTROBIN | 0.010 | ppm | 0.2 | ND |

### Pesticides

PASSED

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 1 | 0.512g | 10/15/20 10:10:53 | 9 |

**Analysis Method - SOP.T.30.060, SOP.T.40.060 ,**
**Analytical Batch - MO001252PES**
**Instrument Used : LCMSMS 8060 P**
**Running On :**
**Batch Date : 10/13/20 14:05:00**

**Reviewed On- 10/14/20 15:31:29**

| Reagent | Dilution | Consums. ID |
|---|---|---|
| 103019_36 | | 03-339-23B |
| 103019_37 | | 03-339-23D |
| 103019_35 | | 190711060 |
| 103019_34 | | 64272919 |
| 103019_32 | | |

Pesticide screen is performed using LC-MS which can screen down to below single digit ppb concentrations for regulated Pesticides. Currently we analyze for 57 Pesticides. (Method: SOP.T.30.060 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T40.060 Procedure for Pesticide Quantification Using LCMS). *



**David Greene**
Lab Director
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Matrix : Flower

# Certificate of Analysis

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**Telephone:** 7344763114
**Email:** ryan.valik@gmail.com

**Sample : MO01013044-001**
**Harvest/LOT ID: zone 8**
**Batch# :** 2
**Sampled :** 10/12/20
**Ordered :** 10/12/20

**Sample Size Received :** 10 gram
**Completed :** 10/20/20 **Expires:** 10/20/21
**Sample Method :** SOP Client Method



## Microbials — PASSED

| Analyte | LOD | Result |
|---|---|---|
| ASPERGILLUS_TERREUS_1J2 | | not present in 1 gram. |
| ASPERGILLUS_NIGER | | not present in 1 gram. |
| ASPERGILLUS_FUMIGATUS | | not present in 1 gram. |
| ASPERGILLUS_FLAVUS | | not present in 1 gram. |
| SALMONELLA_SPECIFIC_GENE | | not present in 1 gram. |
| ESCHERICHIA_COLI_SHIGELLA_SPP | | not present in 1 gram. |
| TOTAL_YEAST_AND_MOLD | | 18000 |

**Analysis Method -**SOP.T.40.043
**Analytical Batch -**NA **Batch Date :**
**Instrument Used :**
**Running On :**

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| NA | NA | NA | NA |

Microbiological testing for Fungal and Bacterial Identification via Polymerase Chain Reaction (PCR) method consisting of sample DNA amplified via tandem Polymerase Chain Reaction (PCR) as a crude lysate which avoids purification. (Method SOP.T.40.043) If a pathogenic Escherichia Coli, Salmonella, Aspergillus fumigatus, Aspergillus flavus, Aspergillus niger, or Aspergillus terreus is detected in 1g of a sample, the sample fails the microbiological-impurity testing.

## Mycotoxins — PASSED

| Analyte | LOD | Units | Result | Action Level (PPM) |
|---|---|---|---|---|
| AFLATOXIN G2 | 0.001 | ppm | ND | 0.02 |
| AFLATOXIN G1 | 0.001 | ppm | ND | 0.02 |
| AFLATOXIN B2 | 0.001 | ppm | ND | 0.02 |
| AFLATOXIN B1 | 0.001 | ppm | ND | 0.02 |
| OCHRATOXIN A+ | 0.001 | ppm | ND | 0.02 |

**Analysis Method -**SOP.T.30.060, SOP.T.40.060
**Analytical Batch -**MO001255MYC | **Reviewed On -** 10/16/20 10:18:26
**Instrument Used :**
**Running On :**
**Batch Date :** 10/13/20 14:06:55

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 1 | 1g | NA | NA |

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.060 for Sample Preparation and SOP.T40.060 Procedure for Mycotoxins Quantification Using LCMS. LOQ 1.0 ppb). Total Aflatoxins (Aflotoxin B1, B2, G1, G2) must be <20µg/Kg. Ochratoxins must be <20µg/Kg.

## Heavy Metals — PASSED

**Reagent**

110119.52
110119.44
112519.01
110119.36

| Metal | LOD | Unit | Result | Action Level (PPM) |
|---|---|---|---|---|
| ARSENIC | 0.02 | ppm | ND | 10 |
| CADMIUM | 0.02 | ppm | ND | 4.1 |
| LEAD | 0.02 | ppm | 0.431 | 10 |
| MERCURY | 0.02 | ppm | ND | 2 |

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 18 | 0.500g | 10/14/20 12:10:13 | 18 |

**Analysis Method -**SOP.T.40.050, SOP.T.30.052
**Analytical Batch -**MO001262HEA | **Reviewed On -** 10/14/20 14:52:29
**Instrument Used :** ICP-MS 2030
**Running On :**
**Batch Date :** 10/14/20 12:11:00

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. *Action Limits based on Colorado Regulations.



**David Greene**
Lab Director
State License # 19-05-02P
ISO Accreditation # 17025:2017 #97164

Signature

10/20/2020
Signed On