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

Kaycha Labs
KY006602IHF
N/A
Matrix: Derivative

# Certificate of Analysis

**Sample:MO00911030-001**
**Harvest/Lot ID: KY006601IHF**
**Seed to Sale #**N/A
**Batch Date :**09/09/20
**Batch#:** 56
**Sample Size Received:** 10 gram
**Retail Product Size:** 1 gram
**Ordered** : 09/10/20
**Sampled** : 09/10/20
**Completed:** 09/15/20 Expires: 09/15/21
**Sampling Method:** SOP Client Method

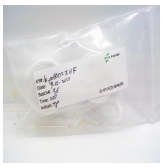
## Sep 15, 2020 | Zelios

2029 Buck Lane
Lexington, KY, 40511,

**PASSED**



**PRODUCT IMAGE** **SAFETY RESULTS** **MISC.**



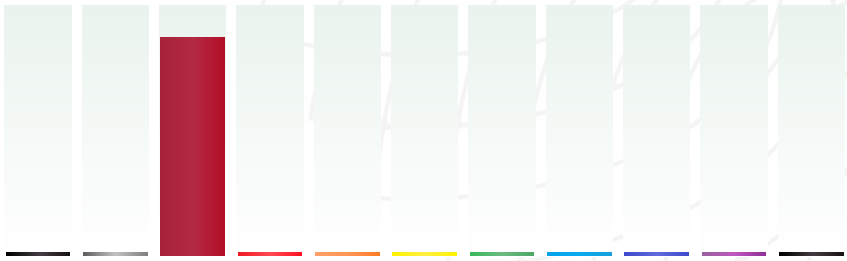
| Pesticides | Heavy Metals | Microbials | Mycotoxins | Residuals Solvents | Filth | Water Activity | Moisture | Terpenes |
|---|---|---|---|---|---|---|---|---|
| PASSED | PASSED | PASSED | PASSED | PASSED | PASSED | NOT TESTED | NOT TESTED | NOT TESTED |

## CANNABINOID RESULTS

**Total THC**
**0.000%**

**Total CBD**
**99.409%**

**Total Cannabinoids**
**99.569%**



| | D9-THC | THCA | CBD | CBDA | D8-THC | THCV | CBN | CBDV | CBC | CBG | CBGA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | ND | ND | 99.409 % | ND | ND | ND | ND | 0.160% | ND | ND | ND |
| | ND | ND | 994.090 mg/g | ND | ND | ND | ND | 1.600 mg/g | ND | ND | ND |
| LOD | 0.0001 % | 0.001 % | 0.0001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % | 0.001 % |

**Filth** **PASSED**

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

**Analysis Method -**SOP.T.40.013 **Batch Date :**
**Analytical Batch -**NA **Reviewed On -** 09/14/20 12:00:46
**Instrument Used :**

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 use for inspection.

### Cannabinoid Profile Test

| Analyzed by | Weight | Extraction date : | Extracted By : |
|---|---|---|---|
| 19 | 1g | NA | NA |

**Analysis Method -**SOP.T.40.020, SOP.T.30.050 **Reviewed On -** 09/15/20 12:29:25
**Analytical Batch -**MO001078POT **Instrument Used :** HPLC Potency Analyzer **Batch Date :** 09/14/20 10:18:13

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

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%



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

Signature

09/15/2020
Signed On

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**Kaycha Labs**
KY006602IHF
N/A
Matrix : Derivative

# Certificate of Analysis

**PASSED**

**Zelios**

2029 Buck Lane
Lexington, KY, 40511,
**Telephone:** (229) 225-8283
**Email:** joe.grimm@zelios.com

**Sample : MO00911030-001**
**Harvest/LOT ID: KY006601IHF**
**Batch# :** 56
**Sampled :** 09/10/20
**Ordered :** 09/10/20
**Sample Size Received :** 10 gram
**Completed :** 09/15/20 **Expires:** 09/15/21
**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 |

| Pesticides | LOD | Units | Action Level | Result |
|---|---|---|---|---|
| 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 |
|---|---|---|---|
| 9 | 0.496g | 09/14/20 03:09:05 | 9 |

**Analysis Method -** SOP.T.30.060, SOP.T.40.060 ,
**Analytical Batch -** MO001082PES
**Instrument Used :** LCMSMS 8060 P
**Batch Date :** 09/14/20 15:03:02
**Reviewed On-** 09/14/20 12:00:46

| Reagent | Dilution | Consums. ID |
|---|---|---|
| 032420.04 | | 03-339-23B |
| 103019.38 | | 03-339-23D |
| 103019.36 | | 190711060 |
| 103019.34 | | 180711 |
| 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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ISO Accreditation #
17025:2017 #97164

Signature

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Signed On

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**Kaycha Labs**
KY006602IHF
N/A
Matrix : Derivative

# Certificate of Analysis

**PASSED**

**Zelios**

2029 Buck Lane
Lexington, KY, 40511,
**Telephone:** (229) 225-8283
**Email:** joe.grimm@zelios.com

**Sample : MO00911030-001**
**Harvest/LOT ID: KY006601IHF**
**Batch# :** 56
**Sampled :** 09/10/20
**Ordered :** 09/10/20
**Sample Size Received :** 10 gram
**Completed :** 09/15/20 **Expires:** 09/15/21
**Sample Method :** SOP Client Method



## Residual Solvents — PASSED

| Solvent | LOD | Units | Action Level (PPM) | Pass/Fail | Result |
|---|---|---|---|---|---|
| TRICHLOROETHENE | 3 | ppm | 80 | PASS | ND |
| CHLOROFORM | 0.24 | ppm | 60 | PASS | ND |
| 1,2-DICHLOROETHENE | 0.24 | ppm | 1870 | PASS | ND |
| 1,1-DICHLOROETHENE | 2 | ppm | 8 | PASS | ND |
| PENTANES | 90 | ppm | 2500 | PASS | ND |
| BUTANES (N-BUTANE) | 50 | ppm | 5000 | PASS | ND |
| ACETONITRILE | 7.2 | ppm | 410 | PASS | ND |
| ACETONE | 90 | ppm | 5000 | PASS | ND |
| 2-PROPANOL | 60 | ppm | 5000 | PASS | ND |
| HEXANES | 6 | ppm | 290 | PASS | ND |
| XYLENES | 18 | ppm | 2170 | PASS | ND |
| TOLUENE | 18 | ppm | 1068 | PASS | ND |
| PROPANE | 80 | ppm | 5000 | PASS | ND |
| METHANOL | 30 | ppm | 3000 | PASS | ND |
| HEPTANE | 60 | ppm | 5000 | PASS | 196.000 |
| XYLENES-P (1,4-DIMETHYLBENZENE) | 18 | ppm | 2170 | PASS | ND |
| ETHYLENE OXIDE | 0.6 | ppm | 50 | PASS | ND |
| XYLENES-M (1,3-DIMETHYLBENZENE) | 18 | ppm | 2170 | PASS | ND |
| ETHYL ETHER | 60 | ppm | 5000 | PASS | ND |
| XYLENES-O (1,2-DIMETHYLBENZENE) | 18 | ppm | 2170 | PASS | ND |
| ETHYL ACETATE | 48 | ppm | 5000 | PASS | ND |
| ETHANOL | 120 | ppm | 5000 | PASS | ND |
| DICHLOROMETHANE | 15 | ppm | 600 | PASS | ND |

## Residual Solvents — PASSED

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 18 | 0.029g | 09/14/20 08:09:04 | 18 |

**Analysis Method -** SOP.T.40.032
**Analytical Batch -** MO001074SOL **Reviewed On -** 09/14/20 10:35:33
**Instrument Used :** GCMS2010
**Batch Date :** 09/14/20 08:32:45

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

Residual solvents screening is performed using GC-MS which can detect below single digit ppm concentrations. Currently we analyze for 33 Residual solvents. (Method: SOP.T.30.042 Residual Solvents Analysis via GC-MS).



**David Greene**
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ISO Accreditation # 17025:2017 #97164

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N/A
Matrix : Derivative

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**Telephone:** (229) 225-8283
**Email:** joe.grimm@zelios.com

**Sample : MO00911030-001**
**Harvest/LOT ID: KY006601IHF**
**Batch# :** 56
**Sampled :** 09/10/20
**Ordered :** 09/10/20
**Sample Size Received :** 10 gram
**Completed :** 09/15/20 **Expires:** 09/15/21
**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 | | not present in 1 gram. |

**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 - | Reviewed On - 09/15/20 09:41:09**
**Instrument Used :**
**Running On :**
**Batch Date :**

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| NA | NA | 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 | ND | 10 |
| MERCURY | 0.02 | ppm | ND | 2 |

| Analyzed by | Weight | Extraction date | Extracted By |
|---|---|---|---|
| 18 | 0.493g | 09/14/20 08:09:06 | 18 |

**Analysis Method -SOP.T.40.050, SOP.T.30.052**
**Analytical Batch -MO001072HEA | Reviewed On - 09/14/20 10:32:29**
**Instrument Used : ICP-MS 2030**
**Running On :**
**Batch Date : 09/14/20 08:30:45**

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

09/15/2020
Signed On