



# Certificate of Analysis

Sample: M000929018-001  
Harvest/Lot ID: KY007603IHF  
Seed to Sale #N/A  
Batch Date : 09/28/20  
Batch#: 60  
Sample Size Received: 10 gram  
Retail Product Size: 1 gram  
Ordered : 09/28/20  
Sampled : 09/28/20  
Completed: 10/01/20 Expires: 10/01/21  
Sampling Method: SOP Client Method

Oct 01, 2020 | Zelios

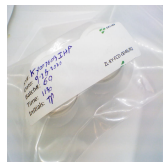
2029 Buck Lane  
Lexington, KY, 40511,



**PASSED**

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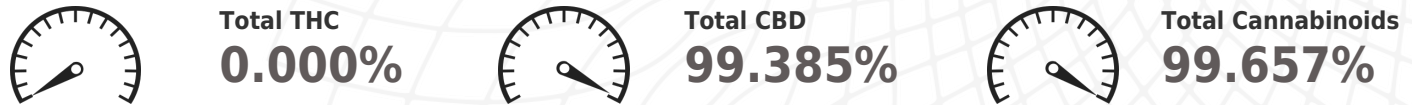
PRODUCT IMAGE SAFETY RESULTS



 Pesticides <b>PASSED</b>	 Heavy Metals <b>PASSED</b>	 Microbials <b>PASSED</b>	 Mycotoxins <b>PASSED</b>	 Residuals Solvents <b>PASSED</b>	 Filtration <b>PASSED</b>	 Water Activity NOT TESTED	 Moisture NOT TESTED	 Terpenes <b>TESTED</b>
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MISC.

CANNABINOID RESULTS



 **Filtration PASSED**

Analyzed By: 19 Weight: NA Extraction date: NA LOD(ppm): NA Extracted By: NA  
Analysis Method - SOP.T.40.013 Batch Date :  
Analytical Batch -NA Reviewed On - 10/01/20 12:27:11  
Instrument Used :  
Running On :

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.

D9-THC	THCA	CBD	CBDA	D8-THC	THCV	CBN	CBDV	CBC	CBG	CBGA
ND	ND	99.385%	ND	ND	ND	ND	0.272%	ND	ND	ND
ND	ND	993.850 mg/g	ND	ND	ND	ND	2.720 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%

Cannabinoid Profile Test

Analyzed by: 19 Weight: 0.1067g Extraction date: 09/29/20 04:09:49 Extracted By: 19  
Analysis Method - SOP.T.40.020, SOP.T.30.050 Reviewed On - 09/30/20 14:10:02 Batch Date : 09/29/20 16:31:27  
Analytical Batch - M0001169POT 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%

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David Greene  
Lab Director

State License # 19-05-02P  
ISO Accreditation #  
17025:2017 #97164

  
Signature

10/01/2020

Signed On



# Certificate of Analysis

**PASSED**

Zelios

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

Sample : M000929018-001  
Harvest/LOT ID: KY007603IHF

Batch# : 60  
Sampled : 09/28/20  
Ordered : 09/28/20

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Completed : 10/01/20 Expires: 10/01/21  
Sample Method : SOP Client Method

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## 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	%	ND
LIMONENE	0.005	%	ND
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	%	ND
TRANS-NEROLIDOL	0.005	%	ND
VALENCENE	0.005	%	ND
CEDROL	0.005	%	ND
ALPHA-HUMULENE	0.005	%	ND
ALPHA-PINENE	0.005	%	ND
ALPHA-TERPINENE	0.005	%	ND
BETA-MYRCENE	0.005	%	ND
BETA-PINENE	0.005	%	ND
BORNEOL	0.01	%	ND
CAMPHENE	0.005	%	ND
CAMPHOR	0.01	%	ND
CARYOPHYLLENE OXIDE	0.005	%	ND
ALPHA-CEDRENE	0.005	%	ND
ALPHA-BISABOLOL	0.005	%	ND
ISOPULEGOL	0.01	%	ND
<b>Total</b>		0.000	

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



## Terpenes

**TESTED**

Analyzed by: 18 Weight: 1.010g Extraction date: 09/30/20 10:09:35 Extracted By: 18

Analysis Method -SOP.T.40.090  
Analytical Batch -M0001170TER Reviewed On - 10/01/20 10:35:05  
Instrument Used : GCMS8050 with Liquid Handler  
Running On :  
Batch Date : 09/30/20 10:43:53

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.



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Harvest/LOT ID: KY007603IHF

Batch# : 60  
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Ordered : 09/28/20

Sample Size Received : 10 gram  
Completed : 10/01/20 Expires: 10/01/21  
Sample Method : SOP Client Method

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## Pesticides

**PASSED**

Pesticides	LOD	Units	Action Level	Result	Pesticides	LOD	Units	Action Level	Result
ABAMECTIN B1A	0.020	ppm	0.5	ND	PRALLETHRIN	0.050	ppm	0.2	ND
ACEPHATE	0.010	ppm	0.5	ND	PROPICONAZOLE	0.010	ppm	0.4	ND
ACEQUINOCYL	0.02	ppm	2	ND	PROPOXUR	0.010	ppm	0.2	ND
ACETAMIPRID	0.010	ppm	0.2	ND	PYRETHRIN I	0.010	ppm	1	ND
ALDICARB	0.020	ppm	0.4	ND	PYRIDABEN	0.005	ppm	0.2	ND
AZOXYSTROBIN	0.010	ppm	0.2	ND	SPINETORAM	0.005	ppm	0.5	ND
BIFENAZATE	0.010	ppm	0.2	ND	SPINOSAD (SPINOSYN A)	0.010	ppm	0.2	ND
BIFENTHRIN	0.010	ppm	0.2	ND	SPINOSAD (SPINOSYN D)	0.010	ppm	0.2	ND
BOSCALID	0.005	ppm	0.4	ND	SPIROMESIFEN	0.010	ppm	0.2	ND
CARBARYL	0.010	ppm	0.2	ND	SPIROTETRAMAT	0.020	ppm	0.2	ND
CARBOFURAN	0.010	ppm	0.2	ND	SPIROXAMINE	0.010	ppm	0.4	ND
CHLORANTRANILIPROLE	0.010	ppm	0.2	ND	TEBUCONAZOLE	0.010	ppm	0.4	ND
CHLORPYRIFOS	0.010	ppm	0.2	ND	THIACLOPRID	0.010	ppm	0.2	ND
CLOFENTEZINE	0.010	ppm	0.2	ND	THIAMETHOXAM	0.010	ppm	0.5	ND
COUMAPHOS	0.005	ppm	0.2	ND	TRIFLOXYSTROBIN	0.010	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					
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

**PASSED**

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA
Analysis Method - SOP.T.30.060, SOP.T.40.060 ,		Reviewed On- 10/01/20 12:27:11	
Analytical Batch -			
Instrument Used :			
Running On :			
Batch Date :			
Reagent	Dilution	Consums. ID	
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). *			

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David Greene  
Lab Director

State License # 19-05-02P  
ISO Accreditation #  
17025:2017 #97164



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Harvest/LOT ID: KY007603IHF

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Sample Size Received : 10 gram  
Completed : 10/01/20 Expires: 10/01/21  
Sample Method : SOP Client Method

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## Residual Solvents

PASSED

## 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	742.000
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

**Analyzed by** 18      **Weight** 0.029g      **Extraction date** 09/30/20 10:09:35      **Extracted By** 18  
**Analysis Method** -SOP.T.40.032      **Reviewed On** - 09/30/20 12:07:25  
**Analytical Batch** -MO001172SOL      **Instrument Used** : GCMS2010  
**Running On** :  
**Batch Date** : 09/30/20 10:45:57

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).		

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**David Greene**  
Lab Director

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Completed : 10/01/20 Expires: 10/01/21  
Sample Method : SOP Client Method

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**Microbials**

PASSED



**Mycotoxins**

PASSED

Analyte	LOD	Result	Analyte	LOD	Units	Result	Action Level (PPM)
ASPERGILLUS_TERREUS_1J2		not present in 1 gram.	AFLATOXIN G2	0.001	ppm	ND	0.02
ASPERGILLUS_NIGER		not present in 1 gram.	AFLATOXIN G1	0.001	ppm	ND	0.02
ASPERGILLUS_FUMIGATUS		not present in 1 gram.	AFLATOXIN B2	0.001	ppm	ND	0.02
ASPERGILLUS_FLAVUS		not present in 1 gram.	AFLATOXIN B1	0.001	ppm	ND	0.02
SALMONELLA_SPECIFIC_GENE		not present in 1 gram.	OCHRATOXIN A+	0.001	ppm	ND	0.02
ESCHERICHIA_COLI_SHIGELLA_SPP		not present in 1 gram.					

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

Analysis Method -SOP.T.30.060, SOP.T.40.060  
Analytical Batch - | Reviewed On - 10/01/20 12:27:53  
Instrument Used :  
Running On :  
Batch Date :

Analyzed by	Weight	Extraction date	Extracted By
NA	NA	NA	NA

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.

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 (Aflatoxin 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	0.484g	09/30/20 10:09:18	18

Analysis Method -SOP.T.40.050, SOP.T.30.052  
Analytical Batch -M0001173HEA | Reviewed On - 09/30/20 11:51:16  
Instrument Used : ICP-MS 2030  
Running On :  
Batch Date : 09/30/20 10:47:57

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.

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