



Certificate of Analysis

SAMPLE:DA91016006-001

Harvest/Lot ID: N/A

Seed to Sale #N/A

Batch#: 19079

Sample Size: 15 ml

Ordered : 10/11/19

Sampled : 10/11/19

Completed: 10/22/19 Expires: 10/22/20

Sampling Method: SOP Client Method

PASSED

Oct 22, 2019 | KENTUCKY BOTANICAL CO.

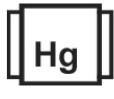
406 Fairfield Ave BELLEVUE
KY, USA 41073



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



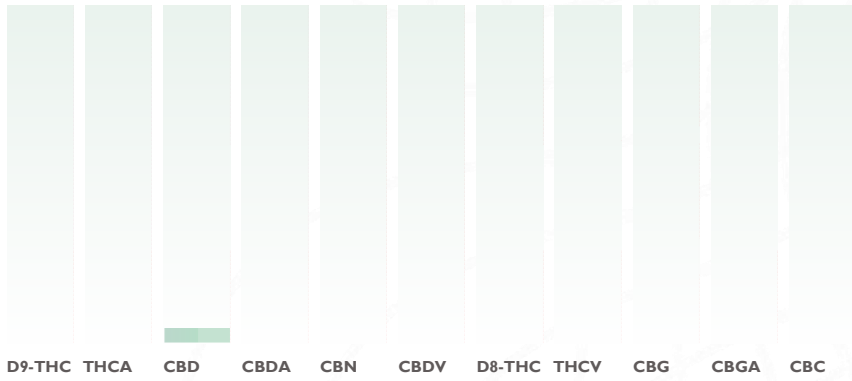
Total THC 0.138%
THC/Container :40.16 mg



Total CBD 3.850%
CBD/Container :1121.62 mg

0.138 % ND	3.850 % ND	0.025 %	0.015 % ND	ND	0.056 % ND	0.154 %
1.380 mg ND	38.500 mg ND	0.250 mg	0.150 mg ND	ND	0.560 mg ND	1.540 mg

Filtration PASSED



Cannabinoid Profile Test

Analyst 450	Weight 3.0103g	Sample Prep : 2019-10-16 10:10:11	Extracted By : 965
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Analysis Method -SOP.T.40.020, SOP.T.30.050
Analytical Batch -DA007201

Reagent	Dilution	Consums. ID
101019.R07	400	76124-662 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 584	Weight 1g	Sample Prep : 2019-10-16 03:10:26	Extracted By : 584
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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 use for inspection.

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

Signature

10/22/2019

Signed On



Certificate of Analysis

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KENTUCKY BOTANICAL CO.

 406 Fairfield Ave.
 BELLEVUE KY, USA
 41073

Telephone: (859) 739-0240

Email: info@kybotanicalco.com

Sample : DA91016006-001,
Harvest/LOT ID: N/A,
Batch# : 19079

Sample Size : 15 ml

Ordered : 10/11/19

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Sample Method : SOP Client Method

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Terpenes
TESTED
Terpenes
TEST RESULT (%)

ALPHA-CEDRENE	ND
ALPHA-HUMULENE	0.024
ALPHA-PINENE	ND
ALPHA-TERPINENE	ND
BETA-MYRCENE	ND
BETA-PINENE	ND
BORNEOL	ND
CAMPHENE	ND
CAMPHOR	ND
CARYOPHYLLENE OXIDE	0.023
CEDROL	ND
ALPHA-BISABOLOL	0.128
ISOPULEGOL	ND
CIS-NEROLIDOL	ND
3-CARENE	ND
FENCHYL ALCOHOL	ND
HEXAHYDROTHYMOL	ND
EUCALYPTOL	ND
ISOBORNEOL	ND
FARNESENE	0.024
FENCHONE	ND
GAMMA-TERPINENE	ND
GERANIOL	ND
GERANYL ACETATE	ND
GUAIOL	0.055
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	0.079
TRANS-NEROLIDOL	ND
VALENCENE	ND


Terpenes
TESTED

Analyst 585	Weight 1.1721g	Sample Prep : 2019-10-16 05:10:11	Extracted By : 585
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Analysis Method -SOP.T.40.090
Analytical Batch -DA007192

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 0.337

Signature

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Sample Method : SOP Client Method

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Pesticides
PASSED

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

	Pesticides	PASSED
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Analyst 795	Weight 1.0036g	Sample Prep : 2019-10-16 02:10:12	Extracted By : 1082
Analysis Method - SOP.T.30.065, SOP.T.40.065			
Analytical Batch - DA007194			
Reagent	Dilution	Consums. ID	
	10		

SOP.T.30.065, SOP.T.40.065

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Jorge Segredo
 Lab Director

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 ISO Accreditation # 97164

Signature

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Batch# : 19079

Sample Size : 15 ml



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Expires : 10/22/20

Sample Method : SOP Client Method

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Residual Solvents **PASSED**

Residual Solvents **PASSED**

SOLVENT	ACTIONLEVEL (PPM)	PASS/FAIL	RESULT
PROPANE		PASS	ND
BUTANES (N-BUTANE)		PASS	ND
ETHYLENE OXIDE		PASS	ND
METHANOL		PASS	ND
ETHANOL		PASS	ND
PENTANES (N-PENTANE)		PASS	ND
ETHYL ETHER		PASS	ND
ACETONE		PASS	ND
2-PROPANOL		PASS	ND
ACETONITRILE		PASS	ND
METHYLENE CHLORIDE		PASS	ND
N-HEXANE		PASS	ND
ETHYL ACETATE		PASS	ND
BENZENE		PASS	ND
HEPTANE		PASS	ND
TOLUENE		PASS	ND
CHLOROFORM		PASS	ND
1,2-DICHLOROETHANE		PASS	ND
TRICHLOROETHYLENE		PASS	ND
1,1-DICHLOROETHENE		PASS	ND
TOTAL XYLENES		PASS	ND

Analyst 850 **Weight** 0.0270g **Sample Prep :** 2019-10-16 04:10:59 **Extracted By :** 850

Analysis Method -SOP.T.40.032
Analytical Batch -DA007223

Reagent	Dilution	Consums. ID
	1	

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).

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 41073

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Harvest/LOT ID: N/A,
Batch# : 19079

Sample Size : 15 ml

Ordered : 10/11/19

Sampled : 10/11/19

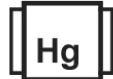
Completed : 10/22/19

Expires : 10/22/20

Sample Method : SOP Client Method

6



PASSED


PASSED

Analyte Result Action Level

AFLATOXIN G2	ND
AFLATOXIN G1	ND
AFLATOXIN B2	ND
AFLATOXIN B1	ND
OCHRATOXIN A+	ND
TOTAL AFLATOXINS	0.000

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA007196


PASSED

Analyte

ASPERGILLUS_FLAVUS
ASPERGILLUS_FUMIGATUS
ASPERGILLUS_NIGER
ASPERGILLUS_TERREUS
ESCHERICHIA_COLI_SHIGELLA_SPP
SALMONELLA_SPECIFIC_GENE

Result

not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.
not present in 1 gram.

Reagent Dilution Consums. ID

50

Metal Result Action Level

ARSENIC	ND
CADMIUM	ND
LEAD	ND
MERCURY	ND

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA007187

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.

Jorge Segredo
 Lab Director

 State License # n/a
 ISO Accreditation # 97164

Signature

10/22/2019

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