



Certificate of Analysis

Dec 30, 2019 | KY BOTANICAL CO.

406 Fairfield Ave.
BELLEVUE KY, USA
41073



SAMPLE:DA91121004-001

Harvest/Lot ID: N/A

Seed to Sale # N/A

Batch#: salve-19085

Sample Size: 10 gram

Ordered : 11/18/19

Sampled : 11/18/19

Completed: 12/30/19 Expires: 12/30/20

Sampling Method: SOP Client Method

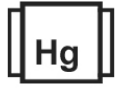
PASSED

Page 1 of 5

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

0.016%

THC/Container : 9.12 mg



Total CBD

1.671%

CBD/Container : 952.47 mg

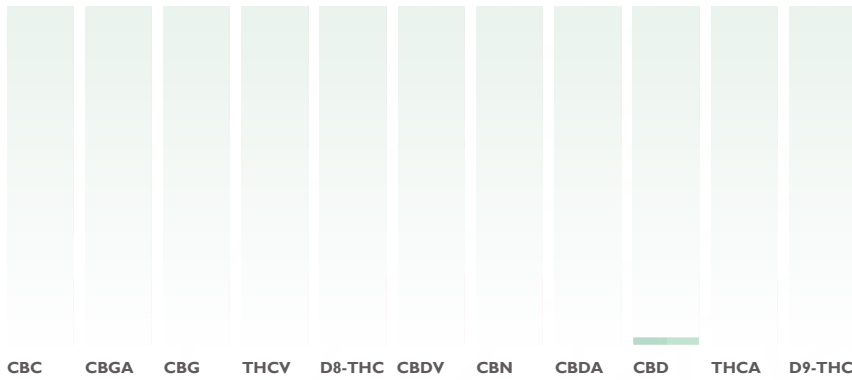


Total Cannabinoids

1.843%

0.086 % ND	0.060 % ND	ND	0.010 % ND	ND	1.671 % ND	0.016 %
0.860 mg/g ND	0.600 mg/g ND	ND	0.100 mg/g ND	ND	16.710 mg/g ND	0.160 mg/g

Filtration **PASSED**



Cannabinoid Profile Test

Analyst: 450 Weight: 3.0208g Sample Prep: 2019-11-22 11:11:00 Extracted By: 965

Analysis Method - SOP.T.40.020, SOP.T.30.050
Analytical Batch - DA008187POT

Reagent	Dilution	Consums. ID
111919.R06	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 Weight Sample Prep: Extracted By:
584 1g 2019-11-21 11:11:49 584
Analysis Method - SOP.T.40.013
Analytical Batch - DA008146FIL

This includes but is not limited to hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. An SH-28/T Stereo Microscope is used for inspection.

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

Signature

12/30/2019

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 : DA91121004-001
Harvest/LOT ID: N/A

Batch# : salve-19085
Sampled : 11/18/19
Completed: 12/30/19
Expires: 12/30/20
Sample Size : 10 gram
Sample Method : SOP Client Method
Ordered : 11/18/19

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Terpenes

TESTED

Terpenes	TEST RESULT (%)	Terpenes	TEST RESULT (%)
ALPHA-CEDRENE	ND	TERPINEOL	0.027
ALPHA-HUMULENE	ND	TERPINOLENE	ND
ALPHA-PINENE	0.105	BETA-CARYOPHYLLENE	ND
ALPHA-TERPINENE	ND	TRANS-NEROLIDOL	ND
BETA-MYRCENE	0.204	VALENCENE	ND
BETA-PINENE	0.089		
BORNEOL	ND		
CAMPHENE	ND		
CAMPHOR	ND		
CARYOPHYLLENE OXIDE	ND		
CEDROL	ND		
ALPHA-BISABOLOL	ND		
ISOPULEGOL	ND		
CIS-NEROLIDOL	ND		
3-CARENE	ND		
FENCHYLALCOHOL	ND		
HEXAHYDROTHYMOL	0.354		
EUCALYPTOL	1.183		
ISOBORNEOL	ND		
FARNESENE	0.235		
FENCHONE	ND		
GAMMA-TERPINENE	ND		
GERANIOL	ND		
GERANYLACETATE	ND		
GUAIOL	ND		
LIMONENE	0.161		
LINALOOL	0.245		
NEROL	ND		
OCIMENE	0.020		
ALPHA-PHELLANDRENE	0.029		
PULEGONE	ND		
SABINENE	0.166		
SABINENE HYDRATE	ND		



Terpenes

TESTED

Analyst 1118 **Weight** 1.0670g **Sample Prep :** 2019-11-21 03:11:36 **Extracted By :** 585

Analysis Method -SOP.T.40.090
Analytical Batch -DA008136TER

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 2.826

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Certificate of Analysis

PASSED
**KENTUCKY
 BOTANICAL CO.**

 406 Fairfield Ave
 BELLEVUE KY, USA 41073
 Telephone: (859) 739-0240
 Email: info@kybotanical.com

Sample : DA91 I21004-001
Harvest/LOT ID: N/A
Batch# : salve-19085
Sampled : 11/18/19
Completed: 12/30/19 **Expires:** 12/30/20
Sample Size : 10 gram
Sample Method : SOP Client Method
Ordered : 11/18/19


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Pesticides

PASSED

Pesticides	LOQ	Action Level	Units	Result	Pesticides	LOQ	Action Level	Units	Result
CHLORDANE	0.010	0.1	ppm	ND	DICHLORVOS	0.050	0.1	ppm	ND
CAPTAN	0.100	3	ppm	ND	METHIOCARB	0.010	0.1	ppm	ND
BOSCALID	0.010	3	PPM	ND	METHOMYL	0.010	0.1	ppm	ND
DIMETHOATE	0.010	0.1	ppm	ND	DIAZANON	0.010	0.2	ppm	ND
ABAMECTIN B1A	0.020	0.3	ppm	ND	MEVINPHOS	0.010	0.1	ppm	ND
CIS-PERMETHRIN	0.050	1	ppm	ND	MYCLOBUTANIL	0.010	3	ppm	ND
SPINETORAM	0.010	3	PPM	ND	NALED	0.010	0.5	ppm	ND
ACEPHATE	0.010	3	ppm	ND	OXAMYL	0.010	0.5	ppm	ND
DIMETHOMORPH	0.005	3	ppm	ND	PACLOBUTRAZOL	0.010	0.1	ppm	ND
ETHOPROPHOS	0.010	0.1	ppm	ND	TRANS-PERMETHRIN	0.050	1	ppm	ND
ACEQUINOCYL	0.050	2	ppm	ND	PHOSMET	0.010	0.2	ppm	ND
ACETAMIPRID	0.010	3	ppm	ND	PIPERONYL BUTOXIDE	0.010	3	ppm	ND
ETOFENPROX	0.010	0.1	ppm	ND	PRALLETHRIN	0.050	0.4	ppm	ND
ALDICARB	0.020	0.1	ppm	ND	PROPICONAZOLE	0.010	1	ppm	ND
ETOXAZOLE	0.010	1.5	ppm	ND	PROPOXUR	0.010	0.1	ppm	ND
AZOXYSTROBIN	0.010	3	ppm	ND	PYRETHRIN I	0.010	1	ppm	ND
FENHEXAMID	0.010	3	ppm	ND	PYRIDABEN	0.010	3	ppm	ND
BIFENAZATE	0.010	3	ppm	ND	SPINOSAD (SPINOSYN A)	0.010	3	ppm	ND
FENOXYCARB	0.010	0.1	ppm	ND	SPINOSAD (SPINOSYN D)	0.010	3	ppm	ND
FENPYROXIMATE	0.010	2	ppm	ND	SPIROMESIFEN	0.010	3	ppm	ND
BIFENTHRIN	0.010	0.5	ppm	ND	SPIROTETRAMAT	0.020	3	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	1	ppm	ND
FLONICAMID	0.010	2	ppm	ND	THIACLOPRID	0.010	0.1	ppm	ND
CARBOFURAN	0.010	0.1	ppm	ND	THIAMETHOXAM	0.010	1	ppm	ND
CHLORANTRANILIPROLE	0.010	3	ppm	ND	TRIFLOXYSTROBIN	0.010	3	ppm	ND
FLUDIOXONIL	0.010	3	ppm	ND					
HEXYTHIAZOX	0.010	2	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	3	ppm	ND					
CLOFENTEZINE	0.010	0.5	ppm	ND					
KRESOXIM-METHYL	0.010	1	ppm	ND					
COUMAPHOS	0.005	0.1	ppm	ND					
MALATHION	0.010	2	ppm	ND					
CYPERMETHRIN	0.020	1	ppm	ND					
DAMINOZIDE	0.020	0.1	ppm	ND					
METALAXYL	0.010	3	ppm	ND					



Pesticides

PASSED

Analyst 585	Weight 0.9414g	Sample Prep : 2019-11-21 11:11:33	Extracted By : 584
Analysis Method -SOP.T.30.065, SOP.T.40.065			
Analytical Batch - DA008139PES			

Reagent	Dilution	Consums. ID
SOP.T.30.065, SOP.T.40.065	10	

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Jorge Segredo
 Lab Director
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 ISO Accreditation # 97164

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PASSED
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 406 Fairfield Ave
 BELLEVUE KY, USA 41073
Telephone: (859) 739-0240
Email: info@kybotanical.com

Sample : DA91121004-001
Harvest/LOT ID: N/A
Batch# : salve-19085
Sampled : 11/18/19
Completed: 12/30/19 **Expires:** 12/30/20
Sample Size : 10 gram
Sample Method : SOP Client Method
Ordered : 11/18/19

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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
DICHLOROMETHANE	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** 0.0211g **Sample Prep :** 2019-11-21 01:11:47 **Extracted By :** 850

Analysis Method -SOP.T.40.032
Analytical Batch -DA008164SOL

Reagent	Dilution	Consums. ID
	1	00268767 160861-1 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).

Jorge Segredo
 Lab Director

 State License # n/a
 ISO Accreditation # 97164

Signature

12/30/2019

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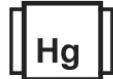


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Sample : DA91121004-001
Harvest/LOT ID: N/A
Batch# : salve-19085
Sampled : 11/18/19
Completed: 12/30/19 **Expires:** 12/30/20
Sample Size : 10 gram
Sample Method : SOP Client Method
Ordered : 11/18/19

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Mycotoxins **PASSED**

Heavy Metals **PASSED**

Analyte	Result	Action Level (PPM)
AFLATOXIN G2	ND	
AFLATOXIN G1	ND	
AFLATOXIN B2	ND	
AFLATOXIN B1	ND	
OCHRATOXIN A+	ND	0.02
TOTAL AFLATOXINS	ND	0.02

Analysis Method -SOP.T.30.065, SOP.T.40.065
Analytical Batch -DA008193MYC
Analyst 585 **Weight** 1g **Sample Prep :** NA **Extracted By:** NA

Reagent	Dilution	Consums. ID
112019.R02	50	
112019.R07		
111819.R02		
112219.R01		
111819.R17		
111419.R01		
052419.01		


Microbials **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.

Analysis Method -SOP.T.40.043
Analytical Batch -DA008141MIC
Analyst 513 **Weight** 1.0261g **Sample Prep :** 2019-11-21 09:11:09 **Extracted By:** 1082

Metal	Result	Action Level (PPM)
ARSENIC	ND	1.5
CADMIUM	ND	0.5
LEAD	ND	0.5
MERCURY	ND	3

Analyst 457 **Weight** 0.4859g **Sample Prep :** 2019-11-21 12:11:56 **Extracted By:** 1022

Analysis Method -SOP.T.40.050, SOP.T.30.052
Analytical Batch -DA008137HEA

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.