



19045-1
Harvest/Lot ID: # N/A
Batch#: 19045

Kentucky Botanical Company

406 Fairfield Ave.
Bellevue, KY 41073
(859)-739-0240
www.kybotanical.com



SAMPLE: DA90705005-002

Sample is BELOW 0.3% THC
Ordered: 07/03/19 Sampled: 07/03/19
Completed: 07/09/19 Expires: 07/09/20

Image



Safety

Pesticides - Passed
Microbials - Passed
Mycotoxins - Passed
Heavy Metals - Passed
Terpenes - Tested
Residual-Solvents - Passed
Filt - Passed
Water Activity - NOT Tested
Moisture - NOT Tested

Cannabinoids

Analyte	Weight(%)	mg/g
D9-THC	0.172	1.720
THCA	ND	ND
CBD	3.468	34.680
CBDa	ND	ND
CBN	ND	ND
CBDV	0.011	0.110
D8-THC	ND	ND
THCV	ND	ND
CBG	0.030	0.300
CBGa	ND	ND
CBC	0.134	1.340
TOTAL THC	0.172	1.719
TOTAL CBD	3.468	34.680

Cannabinoids

0.172% Total THC	3.468% Total CBD
51.60 mg THC/Container	1,040.40 mg CBD/Container



Jorge Segredo
Lab Director

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Terpenes

Terpenes	Test result %
ALPHA-CEDRENE	ND
ALPHA-HUMULENE	0.078
ALPHA-PINENE	ND
ALPHA-TERPINENE	ND
BETA-MYRCENE	ND
BETA-PINENE	ND
BORNEOL	ND
CAMPHENE	ND
CAMPHOR	ND
CARYOPHYLLENE OXIDE	ND
CEDROL	ND
ALPHA-BISABOLOL	0.214
ISOPULEGOL	ND
CIS-NEROLIDOL	ND
3-CARENE	ND
FENCHYL ALCOHOL	ND
HEXAHYDROTHYMOL	ND
EUCALYPTOL	ND
ISOBORNEOL	ND
FARNESENE	0.216
FENCHONE	ND
GAMMA-TERPINENE	ND
GERANIOL	ND
GERANYL ACETATE	ND
GUAIOL	0.043
LIMONENE	ND
LINALOOL	ND
NEROL	ND
OCIMENE	ND
ALPHA-PHELLANDRENE	ND
PULEGONE	ND
SABINENE	ND
SABINENE HYDRATE	ND
TERPINEOL	ND
TERPINOLENE	ND
TRANS-CARYOPHYLLENE	0.205
TRANS-NEROLIDOL	ND
VALENCENE	ND
TOTAL	0.758





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Pesticides	LOQ	Action Level	Units	Result	Pesticides	LOQ	Action Level	Units	Result
DIMETHOATE	0.01	0.05	ppm	ND	MALATHION	0.01	0.05	ppm	ND
ABAMECTIN B1A	0.02	0.1	ppm	ND	CYPERMETHRIN	0.02	0.5	ppm	ND
PENTACHLORONITROBENZENE	0.01	0.2	ppm	ND	DAMINOZIDE	0.02	0.5	ppm	ND
METHYL PARATHION	0.05	0.2	PPM	ND	METALAXYL	0.01	0.05	ppm	ND
CYFLUTHRIN	0.05	1	PPM	ND	DICHLORVOS	0.05	0.1	ppm	ND
ACEPHATE	0.01	0.1	ppm	ND	METHIOCARB	0.01	0.05	ppm	ND
DIMETHOMORPH	0.005	0.05	ppm	ND	METHOMYL	0.01	0.1	ppm	ND
ETHOPROPHOS	0.01	0.05	ppm	ND	DIAZANON	0.01	0.05	ppm	ND
ACEQUINOXYL	0.05	0.1	ppm	ND	MEVINPHOS	0.01	0.05	ppm	ND
ACETAMIPRID	0.01	0.05	ppm	ND	MYCLOBUTANIL	0.01	0.1	ppm	ND
ETOXYPROX	0.01	0.05	ppm	ND	NALED	0.01	0.25	ppm	ND
ALDICARB	0.02	0.05	ppm	ND	OXAMYL	0.01	0.25	ppm	ND
ETOXAZOLE	0.01	0.05	ppm	ND	FLACLOTRAZOL	0.01	0.05	ppm	ND
AZOXYSTROBIN	0.01	0.05	ppm	ND	PERMETHRINS	0.05	0.1	ppm	ND
FENHEXAMID	0.01	0.1	ppm	ND	PHOSMET	0.01	0.1	ppm	ND
BIFENAZATE	0.01	0.01	ppm	ND	PIPERONYL BUTOXIDE	0.01	3	ppm	ND
FENOXYCARB	0.01	0.05	ppm	ND	PRALLETHRIN	0.05	0.1	ppm	ND
FENPYROXIMATE	0.01	0.5	ppm	ND	PROPCONAZOLE	0.01	0.1	ppm	ND
BIFENTHRIN	0.01	0.1	ppm	ND	PROPOXUR	0.01	0.1	ppm	ND
CARBARYL	0.01	0.1	ppm	ND	PYRETHRINS (PYRETHRIN I)	0.01	0.5	ppm	ND
FIPRONIL	0.02	0.05	ppm	ND	PYRIDABEN	0.01	0.2	ppm	ND
FLONICAMID	0.01	0.4	ppm	ND	SPINOSAD (SPINOSYN A)	0.01	0.1	ppm	ND
CARBOPURAN	0.01	0.1	ppm	ND	SPINOSAD (SPINOSYN D)	0.01	0.1	ppm	ND
CHLORANTRANILIPROLE	0.01	0.1	ppm	ND	SPIROMESIFEN	0.01	0.1	ppm	ND
FLUDIOXONIL	0.01	0.1	ppm	ND	SPIROTETRAMAT	0.02	0.1	ppm	ND
HEXYTHIAZOX	0.01	0.25	ppm	ND	SPIROXAMINE	0.01	0.05	ppm	ND
CHLORFENAPYR	0.01	0.05	ppm	ND	TEBUCONAZOLE	0.01	0.05	ppm	ND
IMAZALIL	0.01	0.05	ppm	ND	THIACLOPRID	0.01	0.05	ppm	ND
CHLORPYRIFOS	0.01	0.1	ppm	ND	THIAMETHOXAM	0.01	0.05	ppm	ND
IMIDACLOPRID	0.01	0.1	ppm	ND	TRIFLOXYSTROBIN	0.01	0.1	ppm	ND
CLOFENTEZINE	0.01	0.2	ppm	ND					
KRESOXIM-METHYL	0.01	0.1	ppm	ND					
COUMAPHOS	0.005	0.05	ppm	ND					

Jorge Segredo
Lab Director

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Residual solvent	Action Level(ppm)	Pass/Fail	Results(ppm)
1,2-DICHLOROETHANE	2	Pass	ND
1,2-DICHLOROETHENE	8	Pass	ND
1,4-DIOXANE		Pass	ND
2-BUTANOL		Pass	ND
2-ETHOXYETHANOL		Pass	ND
2-PROPANOL	500	Pass	ND
ACETONE	750	Pass	ND
ACETONITRILE	60	Pass	ND
BENZENE	1	Pass	ND
BUTANES (ISO-BUTANE)	2000	Pass	ND
BUTANES (N-BUTANE)		Pass	ND
CHLOROFORM	2	Pass	ND
CYCLOHEXANE		Pass	ND
ETHANOL	5000	Pass	ND
ETHYL ACETATE	400	Pass	ND
DICHLOROMETHANE		Pass	ND
ETHYL ETHER	500	Pass	ND
ETHYLENE OXIDE	5	Pass	ND
ETHYLBENZENE		Pass	ND
HEPTANE	500	Pass	ND
HEXANES (2,2-DIMETHYLBUTANE)	60	Pass	ND
HEXANES (2,3-DIMETHYLBUTANE)	60	Pass	ND
HEXANES (2-METHYLPENTANE)	60	Pass	ND
HEXANES (3-METHYLPENTANE)	60	Pass	ND
ISOPROPYL ACETATE		Pass	ND
METHYLENE CHLORIDE	125	Pass	ND
METHANOL	250	Pass	ND
N-HEXANE		Pass	ND
PENTANES (ISO-PENTANE)		Pass	ND
PENTANES (N-PENTANE)	750	Pass	ND
PENTANES (NEO-PENTANE)		Pass	ND
PROPANE	100	Pass	ND
TETRAHYDROFURAN		Pass	ND
TOLUENE	150	Pass	ND
TOTAL XYLENES	150	Pass	ND
TRICHLOROETHYLENE	25	Pass	ND

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Cannabinoid Profile Test Result-Analysis Method :SOP.T.40.020, SOP.T.30.050

Analytical Batch: DA004526

Reagent LOT ID	Dilution	Consumables Id	Reagent LOT ID	Dilution	Consumables Id
070519.R34	10	181205	070519.R33		849C4-849AK
070519.R11		1929V5454			910C6 - 910H

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).

Filth and foreign Materials-Analysis Method :SOP.T.40.013

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.

Mycotoxin Analysis-Analysis Method :SOP.T.30.065, SOP.T.40.065

Analytical Batch: DA004529

Analyte	Results	Action Level
AFLATOXIN_G2	ND	0.02
AFLATOXIN_G1	ND	0.02
AFLATOXIN_B2	ND	0.02
AFLATOXIN_B1	ND	0.02
OCHRATOXIN_A	ND	0.02

Aflatoxins B1, B2, G1, G2, and Ochratoxins A testing using LC-MS. (Method: SOP.T.30.065 for Sample Preparation and SOP.T.40.065 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.

Micro Analysis-Analysis method :SOP.T.40.043

Analytical Batch: DA004558

Reagent LOT/ID	Dilution	Consumables id	Results
070819.R01			
Pathogens			
ASPERGILLUS_TERREUS_IJ2			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.

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.



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Pesticide Analysis-Analysis Method: SOP.T.30.065, SOP.T.40.065

Reagent LOT/ID	Dilution	Consumables ID
070519.R14	1	181205 00268913

Analytical Batch :DA004528

Reagent LOT/ID	Dilution	Consumables ID
		280653964

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.30.065 Sample Preparation for Pesticides Analysis via LCMSMS and SOP.T.40.065 Procedure for Pesticide Quantification Using LCMS).

Heavy Metals Analysis-Analysis-Method: SOP.T.40.050, SOP.T.30.052

Reagent LOT/ID	Dilution	Consumables ID
070319.R05	50	
070219.R08		
070319.R04		
040219.21		
061919.R01		

Reagent LOT/ID	Dilution	Consumables ID
061919.R02		
061119.R08		
062619.01		
011819.13		
062719.03		

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.

Metal	Result	Action-Level
ARSENIC	ND	0.2
CADMIUM	ND	0.2
LEAD	ND	0.5
MERCURY	ND	0.1

Abbreviation: ppm=Parts Per Million

Residual Solvents Analysis Method: SOP.T.40.032

Reagent LOT ID	Dilution	Consumables Id
	1	00263624 161040-1

Analytical Batch :DA004517

Reagent LOT ID	Dilution	Consumables Id
		24151940

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).

Terpenes screening-Analysis-Method: SOP.T.40.090

Reagent LOT ID	Dilution	Consumables Id
070319.R09	10	180711 00268913 U1AX005180181025

Analytical Batch :DA004504

Reagent LOT ID	Dilution	Consumables Id
		850C4-850AK 910C6 - 910H

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/MS.

