

BELCOSTA LABS // 1131 E. SOUTH STREET LONG BEACH CA 90805 // PH: (562) 676-4206

CA LICENSE #: C8-0000008-LIC

CERTIFICATE OF ANALYSIS

PRODUCED: NOV 25, 2019

2019_11_4_ORCH_FL (FLOWER) // CLIENT: WALNUT LLC

BATCH RESULT: PASS



BATCH NO.: 2019_11_4_ORCH_FL

MATRIX: FLOWER CATEGORY: INHALABLE **SAMPLE ID**: BCL-191122-001 COLLECTED ON: NOV 22, 2019 RECEIVED ON: NOV 22, 2019 BATCH SIZE: 2981 GRAMS SAMPLE SIZE: 12 GRAMS













PASS

MYCOTOXINS PASS

PASS









CANNABINOIDS

HEAVY METALS WATER ACTIVITY PASS PASS

PASS

CULTIVATOR

WALNUT LLC 3030 WALNUT STE 160 LONG BEACH, CA 90807

LICENSE CCI 19-0000600

MEDICINAL - CULTIVATOR LICENSE

DISTRIBUTOR

WALNUT LLC 3030 WALNUT STE 160 LONG BEACH, CA 90807

LICENSE C11-0001016-LIC

ADULT-USE AND MEDICINAL -DISTRIBUTOR LICENSE



ALL LQC SAMPLES REQUIRED BY SECTION 5730 OF CALIFORNIA CODE OF REGULATIONS TITLE 16 DIVISION 42 BUREAU OF CANNABIS CONTROL WERE PERFORMED AND MET THE ACCEPTANCE CRITERIA.

RESULTS CERTIFIED BY: RON BROOKS, M.S.

SCIENTIFIC DIRECTOR, BELCOSTA LABS

BCL-03: CANNABINOID POTENCY BY HPLC-UV NOV 25, 2019

DRY-WEIGHT AMOUNTS SHOWN



ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	LOD	LOQ	PASS/FAIL
СВС		ND	N D	0.025 mg/g	0.1 mg/g	N/A
CBCA		0.58269 %	5.8269 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBD		ND	N D	0.025 mg/g	0.1 mg/g	N/A
CBDA		0.05428 %	0.5428 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBDV		ND	N D	0.025 mg/g	0.1 mg/g	N/A
CBDVA		ND	ND	0.025 mg/g	0.1 mg/g	N/A
CBG		0.06734 %	0.6734 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBGA		0.74392 %	7.4392 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBN		ND	N D	0.025 mg/g	0.1 mg/g	N/A
Δ ⁸ -THC		ND	N D	0.025 mg/g	0.1 mg/g	N/A
Δ ⁹ -THC		0.68217 %	6.8217 mg/g	0.025 mg/g	0.1 mg/g	N/A
THCA		20.96434 %	209.6434 mg/g	0.025 mg/g	0.1 mg/g	N/A
тнсv		ND	N D	0.025 mg/g	0.1 mg/g	N/A
THCVA		0.09231 %	0.9231 mg/g	0.025 mg/g	0.1 mg/g	N/A
TOTAL THC (TOTAL THC = (THCA X 0.877) + THC)	19.0679 %	190.679 mg/g			N/A
TOTAL CBD (TOTAL CBD = (CBDA X 0.877) + CBD)	0.04761 %	0.4761 mg/g			N/A



BCL-09: TERPENOID TESTING BY HS-GC/FID NOV 24, 2019

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
TOTAL TERPENES		1.81988 %	18.1988 mg/g	N/A
β-CARYOPHYLLENE		0.62402 %	6.2402 mg/g	N/A
D-LIMONENE		0.39816 %	3.9816 mg/g	N/A
α-HUMULENE		0.22405 %	2.2405 mg/g	N/A
LINALOOL		0.14293 %	1.4293 mg/g	N/A
β-PINENE		0.11044 %	1.1044 mg/g	N/A
α-BISABOLOL		0.10699 %	1.0699 mg/g	N/A
α-PINENE		0.09624 %	0.9624 mg/g	N/A
β-MYRCENE		0.09271 %	0.9271 mg/g	N/A
CAMPHENE		0.02434 %	0.2434 mg/g	N/A
CARYOPHYLLENE OXIDE		ND	ND	N/A
CIS-NEROLIDOL		ND	ND	N/A
α-TERPINENE		ND	ND	N/A
Δ ³ -CARENE		ND	ND	N/A
y-TERPINENE		ND	ND	N/A
GERANIOL		ND	ND	N/A
GUAIOL		ND	ND	N/A
ISOPULEGOL		ND	ND	N/A



P-CYMENE	ND	ND	N/A
TERPINOLENE	ND	ND	N/A
TRANS-NEROLIDOL	ND	ND	N/A

BCL-02: MOISTURE CONTENT BY GRAVIMETRY NOV 22, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
MOISTURE		8.5 %	N/A

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR NOV 24, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
ASPERGILLUS FLAVUS	Any amount in 1 gram	ND	PASS
ASPERGILLUS FUMIGATUS	Any amount in 1 gram	ND	PASS
ASPERGILLUS NIGER	Any amount in 1 gram	ND	PASS
ASPERGILLUS TERREUS	Any amount in 1 gram	ND	PASS
ESCHERICHIA COLI	Any amount in 1 gram	ND	PASS
SALMONELLA SPP.	Any amount in 1 gram	ND	PASS



BCL-11: MYCOTOXIN TESTING BY LC-MS/MS NOV 24, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
AFLATOXIN B1	20 μg/kg	ND	15 μg/kg	20 μg/kg	PASS
AFLATOXIN B2	20 μg/kg	ND	15 μg/kg	20 μg/kg	PASS
AFLATOXIN G1	20 μg/kg	ND	15 μg/kg	20 μg/kg	PASS
AFLATOXIN G2	20 μg/kg	ND	15 μg/kg	20 μg/kg	PASS
AFLATOXINS	20 μg/kg	ND	15 μg/kg	20 μg/kg	PASS
OCHRATOXIN A	20 μg/kg	ND	15 μg/kg	20 μg/kg	PASS

BCL-13: PESTICIDE TESTING BY GC/MS NOV 24, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
CAPTAN	0.7 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS
CHLORDANE	Any amount	ND	0.03 µg/g	0.05 μg/g	PASS
CHLORFENAPYR	Any amount	ND	0.03 µg/g	0.05 μg/g	PASS
CHLORPYRIFOS	Any amount	ND	0.03 µg/g	0.05 μg/g	PASS
CYFLUTHRIN	2 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS

CYPERMETHRIN 1 µg/g	ND 0.03 μg/g		
		µg/g	PASS
DICHLORVOS Any amount	ND 0.03 μg/g		PASS
METHYL Any amount PARATHION	ND 0.03 μg/g		PASS
PENTACHLORONI- TROBENZENE 0.1 μg/g	ND 0.03 μg/g		PASS



BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI NOV 24, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL	ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
ABAMECTIN	0.1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS	IMIDACLOPRID	5 μg/g	ND	0.03 µg/g	0.05 µg/g	PASS
АСЕРНАТЕ	0.1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS	KRESOXIM- METHYL	0.1 μg/g	ND	0.03 µg/g	0.05 µg/g	PASS
ACEQUINOCYL	0.1 µg/g	ND	0.03 μg/g	0.05 μg/g	PASS	MALATHION	0.5 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS
ACETAMIPRID	0.1 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS	METALAXYL	2 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS
ALDICARB	Any amount	ND	0.03 µg/g	0.05 μg/g	PASS	METHIOCARB	Any amount	ND	0.03 μg/g	0.05 μg/g	PASS
AZOXYSTROBIN	0.1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS	METHOMYL	1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS
BIFENAZATE	0.1 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS	MEVINPHOS	Any amount	ND	0.03 μg/g	0.05 μg/g	PASS
BIFENTHRIN	3 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS	MYCLOBUTANIL	0.1 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS
BOSCALID	0.1 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS	NALED	0.1 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS
CARBARYL	0.5 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS	OXAMYL	0.5 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS
CARBOFURAN	Any amount	ND	0.03 μg/g	0.05 μg/g	PASS	PACLOBUTRAZOL	Any amount	ND	0.03 μg/g	0.05 μg/g	PASS
CHLORANTRANIL- IPROLE	10 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS	PERMETHRIN	0.5 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS
CLOFENTEZINE	0.1 µg/g	ND		0.05 μg/g	PASS	PHOSMET	0.1 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS
COUMAPHOS	Any amount	ND		0.05 μg/g	PASS	PIPERONYLBUTO- XIDE	3 μg/g	ND		0.05 μg/g	PASS
DAMINOZIDE	Any amount	ND		0.05 μg/g	PASS	PRALLETHRIN	0.1 μg/g	ND		0.05 μg/g	PASS
DIAZINON	0.1 μg/g	ND		0.05 μg/g	PASS	PROPICONAZOLE	0.1 μg/g	ND		0.05 μg/g	PASS
DIMETHOATE	Any amount	ND		0.05 μg/g	PASS	PROPOXUR	Any amount	ND		0.05 μg/g	PASS
DIMETHOMORPH	2 μg/g	ND		0.05 μg/g	PASS	PYRETHRINS	0.5 μg/g	ND		0.05 µg/g	PASS



https://lims.tagleaf.com/coa_/UdJi0UHd0s

ETHOPROPHOS	Any amount	ΝD	0.03 µg/g		PASS
ETOFENPROX	Any amount	ΝD	0.03 µg/g		PASS
ETOXAZOLE	0.1 μg/g	ΝD	0.03 µg/g	0.05 μg/g	PASS
FENHEXAMID	0.1 μg/g	ΝD	0.03 µg/g		PASS
FENOXYCARB	Any amount	ND	0.03 µg/g		PASS
FENPYROXIMATE	0.1 μg/g	ND	0.03 µg/g		PASS
FIPRONIL	Any amount	ΝD	0.03 µg/g		PASS
FLONICAMID	0.1 μg/g	ND	0.03 µg/g		PASS
FLUDIOXONIL	0.1 μg/g	ND	0.03 µg/g		PASS
HEXYTHIAZOX	0.1 μg/g	ND	0.03 µg/g		PASS
IMAZALIL	Any amount	ND	0.03 µg/g	0.05 μg/g	PASS

PYRIDABEN	0.1 μg/g	ND	0.03 µg/g	0.05 µg/g	PASS
SPINETORAM	0.1 μg/g	ND		0.05 μg/g	PASS
SPINOSAD	0.1 µg/g	ND	0.03 μg/g		PASS
SPIROMESIFEN	0.1 μg/g	ND		0.05 μg/g	PASS
SPIROTETRAMAT	0.1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS
SPIROXAMINE	Any amount	ND	0.03 µg/g		PASS
TEBUCONAZOLE	0.1 μg/g	ND		0.05 µg/g	PASS
THIACLOPRID	Any amount	ND		0.05 µg/g	PASS
THIAMETHOXAM	5 µg/g	ND	0.03 µg/g		PASS
TRIFLOXYSTROB- IN	0.1 µg/g	ND	0.03 µg/g		PASS

BCL-10: HEAVY METAL TESTING BY ICP-MS NOV 25, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
ARSENIC	0.2 μg/g	ND	0.004 µg/g	0.02 μg/g	PASS
CADMIUM	0.2 µg/g	N D	0.004 µg/g	0.02 μg/g	PASS
LEAD	0.5 µg/g	ND	0.004 μg/g	0.02 μg/g	PASS
MERCURY	0.1 µg/g	0.01 μg/g	0.001 μg/g	0.004 μg/g	PASS



BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM NOV 22, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.52 Aw	PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY NOV 22, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
CINDERS	25 %	ND	PASS
DIRT	25 %	ND	PASS
IMBEDDED FOREIGN MATERIAL	25 %	ND	PASS
INSECT FRAGMENTS	1 Unit	ND	PASS
MAMMAL EXCREMENT	1 Unit	ND	PASS
MOLD	25 %	ND	PASS
RODENT HAIR	1 Unit	ND	PASS
SAND	25 %	ND	PASS
SOIL	25 %	N D	PASS

