

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

CA LICENSE #: C8-0000008-LIC

CERTIFICATE OF ANALYSIS

PRODUCED: OCT 21, 2019

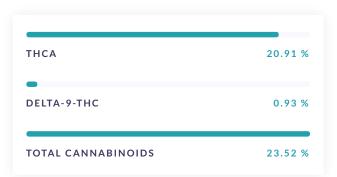
2019_09_23_ORCH_FL (FLOWER) // CLIENT: WALNUT LLC

BATCH RESULT: PASS



BATCH NO.: 2019_09_23_ORCH_FL

MATRIX: FLOWER CATEGORY: INHALABLE **SAMPLE ID:** BCL-191018-005 COLLECTED ON: OCT 18, 2019 RECEIVED ON: OCT 18, 2019 BATCH SIZE: 3437 GRAMS SAMPLE SIZE: 14 GRAMS











PASS









PASS

CANNABINOIDS

HEAVY METALS WATER ACTIVITY PASS PASS

MATERIALS

CULTIVATOR

WALNUT LLC 3030 WALNUT STE 160 LONG BEACH, CA 90807

LICENSE PML19-0000600

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 OCT 21, 2019

DRY-WEIGHT AMOUNTS SHOWN



ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	LOD	LOQ	PASS/FAIL
СВС		0.03666 %	0.3666 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBCA		0.63856 %	6.3856 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBD		ND	ND	0.025 mg/g	0.1 mg/g	N/A
CBDA		0.05682 %	0.5682 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBDV		ND	ND	0.025 mg/g	0.1 mg/g	N/A
CBDVA		ND	ND	0.025 mg/g	0.1 mg/g	N/A
CBG		0.07335 %	0.7335 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBGA		0.7721 %	7.721 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBN		ND	ND	0.025 mg/g	0.1 mg/g	N/A
Δ ⁸ -THC		ND	ND	0.025 mg/g	0.1 mg/g	N/A
Δ ⁹ -THC		0.93433 %	9.3433 mg/g	0.025 mg/g	0.1 mg/g	N/A
ТНСА		20.90883 %	209.0883 mg/g	0.025 mg/g	0.1 mg/g	N/A
тнсv		ND	ND	0.025 mg/g	0.1 mg/g	N/A
тнсvа		0.09735 %	0.9735 mg/g	0.025 mg/g	0.1 mg/g	N/A
TOTAL THC (TOTAL THC = (THCA X 0.877) + THC)	19.27137 %	192.7137 mg/g			N/A
TOTAL CBD (TOTAL CBD = (CBDA X 0.877	') + CBD)	0.04983 %	0.4983 mg/g			N/A



BCL-09: TERPENOID TESTING BY HS-GC/FID OCT 20, 2019

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
TOTAL TERPENES		2.62094 %	26.2094 mg/g	N/A
β-CARYOPHYLLENE		0.78716 %	7.8716 mg/g	N/A
D-LIMONENE		0.70371 %	7.0371 mg/g	N/A
LINALOOL		0.22391 %	2.2391 mg/g	N/A
α-H U M U L E N E		0.19858 %	1.9858 mg/g	N/A
β-MYRCENE		0.172 %	1.72 mg/g	N/A
α-PINENE		0.15526 %	1.5526 mg/g	N/A
β-PINENE		0.15358 %	1.5358 mg/g	N/A
α-BISABOLOL		0.12584 %	1.2584 mg/g	N/A
β-OCIMENE		0.1009 %	1.009 mg/g	N/A
P-CYMENE		ND	ND	N/A
y-TERPINENE		ND	ND	N/A
CIS-NEROLIDOL		ND	ND	N/A
1,8-CINEOLE		ND	ND	N/A
α-TERPINENE		ND	ND	N/A
CAMPHENE		ND	ND	N/A
α-OCIMENE		ND	ND	N/A
TERPINOLENE		ND	ND	N/A



ISOPULEGOL	ND	N D	N/A
GUAIOL	ND	ND	N/A
GERANIOL	ND	ND	N/A
Δ ³ -CARENE	ND	ND	N/A
TRANS-NEROLIDOL	ND	N D	N/A

BCL-02: MOISTURE CONTENT BY GRAVIMETRY OCT 20, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
MOISTURE		7.6 %	N/A

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR OCT 20, 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 OCT 21, 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 OCT 21, 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

DICHLORVOS Any amount ND 0.03 0.05 μg/g μg/g PAS METHYL PARATHION Any amount ND 0.03 0.05 μg/g μg/g PAS PENTACHLORONI- 0.1 μg/g ND 0.03 0.05 μg/g PAS	ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
METHYL PARATHION Any amount ND μg/g μg/g μg/g PAS PENTACHLORONI- 0.1 μg/g ND 0.03 0.05 μg/g μg/g PAS	CYPERMETHRIN	1 μg/g	ND			PASS
PARATHION Any amount ND μg/g μg/g PAS PENTACHLORONI- 0.1 μg/g ND 0.03 0.05 PAS	DICHLORVOS	Any amount	ND			PASS
0.1 µg/g ND PAS		Any amount	ND			PASS
TROBENZENE µg/g µg/g	PENTACHLORONI- TROBENZENE	0.1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS



BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI OCT 21, 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		PASS	IMIDACLOPRID	5 μg/g	ND	0.03 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	0.03 µg/g	0.05 μg/g	PASS	PYRETHRINS	0.5 μg/g	ND	0.03 μg/g	0.05 μg/g	PASS



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	ND	0.03 µg/g		PASS
FENOXYCARB	Any amount	ND	0.03 µg/g		PASS
FENPYROXIMATE	0.1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS
FIPRONIL	Any amount	ND	0.03 µg/g	0.05 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		PASS

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

BCL-10: HEAVY METAL TESTING BY ICP-MS OCT 20, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
ARSENIC	0.2 μg/g	0.011 μg/g	0.004 µg/g	0.011 μg/g	PASS
CADMIUM	0.2 µg/g	0.014 µg/g	0.004 µg/g	0.011 μg/g	PASS
LEAD	0.5 μg/g	0.025 µg/g	0.006 μg/g	0.019 µg/g	PASS
MERCURY	0.1 µg/g	ND	0.004 µg/g	0.013 μg/g	PASS



BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM OCT 20, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.55 Aw	PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY OCT 19, 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

