

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

CA LICENSE #: C8-0000008-LIC

## **CERTIFICATE OF ANALYSIS**

PRODUCED: DEC 10, 2019

2019\_11\_13\_ORCH\_FL (FLOWER) // CLIENT: WALNUT LLC

**BATCH RESULT: PASS** 



BATCH NO.: 2019\_11\_13\_ORCH\_FL

MATRIX: FLOWER
CATEGORY: INHALABLE
SAMPLE ID: BCL-191206-001
COLLECTED ON: DEC 06, 2019
RECEIVED ON: DEC 06, 2019
BATCH SIZE: 9866 GRAMS
SAMPLE SIZE: 36 GRAMS







PASS



PASS





PASS









PASS

CANNABINOIDS

PASS PASS

CULTIVATOR

WALNUT LLC 3030 WALNUT STE 160 LONG BEACH, CA 90807

LICENSE CCI 19-0000600

TYPE

MEDICINAL - CULTIVATOR LICENSE

#### **DISTRIBUTOR**

WALNUT LLC 3030 WALNUT STE 160 LONG BEACH, CA 90807

LICENSE C11-0001016-LIC

011 0001010

TYPE

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

DEC 10 2019

# BCL-03: CANNABINOID POTENCY BY HPLC-UV DEC 08, 2019

DRY-WEIGHT AMOUNTS SHOWN



ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	LOD	LOQ	PASS/FA
СВС		ND	N D	0.025 mg/g	0.1 mg/g	N/.
CBCA		0.48455 %	4.8455 mg/g	0.025 mg/g	0.1 mg/g	N/
CBD		ND	ND	0.025 mg/g	0.1 mg/g	N/
CBDA		0.05742 %	0.5742 mg/g	0.025 mg/g	0.1 mg/g	N/
CBDV		ND	N D	0.025 mg/g	0.1 mg/g	N/
CBDVA		ND	N D	0.025 mg/g	0.1 mg/g	N/
CBG		0.06151 %	0.6151 mg/g	0.025 mg/g	0.1 mg/g	N/
EBGA		0.90934 %	9.0934 mg/g	0.025 mg/g	0.1 mg/g	N
C B N		ND	N D	0.025 mg/g	0.1 mg/g	N
<b>1</b> 8-THC		ND	N D	0.025 mg/g	0.1 mg/g	N
<b>1</b> 9-тнс		1.10071 %	11.0071 mg/g	0.025 mg/g	0.1 mg/g	N
ГНСА		22.18052 %	221.8052 mg/g	0.025 mg/g	0.1 mg/g	N /
гнсv		ND	N D	0.025 mg/g	0.1 mg/g	N /
THCVA		0.11324 %	1.1324 mg/g	0.025 mg/g	0.1 mg/g	N/
TOTAL THC (TOTAL THC = (THCA X 0.	877) + THC)	20.55302 %	205.5302 mg/g			N.
TOTAL CBD (TOTAL CBD = (CBDA X 0		0.05035 %	0.5035 mg/g			N/



# BCL-09: TERPENOID TESTING BY HS-GC/FID DEC 09, 2019

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
TOTAL TERPENES		2.52976 %	25.2976 mg/g	N/A
β-CARYOPHYLLENE		0.68112 %	6.8112 mg/g	N/A
D-LIMONENE		0.52949 %	5.2949 mg/g	N/A
TRANS-NEROLIDOL		0.48829 %	4.8829 mg/g	N/A
α-HUMULENE		0.23837 %	2.3837 mg/g	N/A
LINALOOL		0.14605 %	1.4605 mg/g	N/A
β-PINENE		0.11282 %	1.1282 mg/g	N/A
β-MYRCENE		0.10022 %	1.0022 mg/g	N/A
α-PINENE		0.09852 %	0.9852 mg/g	N/A
α-BISABOLOL		0.07724 %	0.7724 mg/g	N/A
CAMPHENE		0.02372 %	0.2372 mg/g	N/A
CARYOPHYLLENE OXIDE		0.01759 %	0.1759 mg/g	N/A
TERPINOLENE		0.01633 %	0.1633 mg/g	N/A
ISOPULEGOL		ND	ND	N/A
P-CYMENE		ND	ND	N/A
α-TERPINENE		ND	ND	N/A
GUAIOL		ND	ND	N/A
GERANIOL		N D	ND	N/A



y-TERPINENE	ND	ND	N/A
CIS-NEROLIDOL	ND	ND	N/A
Δ³-CARENE	ND	ND	N/A

# BCL-02: MOISTURE CONTENT BY GRAVIMETRY DEC 08, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
MOISTURE		7.9 %	N/A

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR DEC 09, 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 DEC 09, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
AFLATOXIN B1		ND	1.476 µg/kg	4.472 μg/kg	N/A
AFLATOXIN B2		ND	1.683 µg/kg	5.101 μg/kg	N/A
AFLATOXIN G1		N D	1.559 μg/kg	4.723 μg/kg	N/A
AFLATOXIN G2		ND	1.585 μg/kg	4.804 µg/kg	N/A
AFLATOXINS	20 μg/kg	ND	6.303 µg/kg	19.1 μg/kg	PASS
OCHRATOXIN A	20 μg/kg	ND	3.312 µg/kg	10.037 μg/kg	PASS

# BCL-13: PESTICIDE TESTING BY GC/MS DEC 09, 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

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
CYPERMETHRIN	1 μg/g	ND	0.03 µg/g	0.05 µg/g	PASS
DICHLORVOS	Any amount	ND	0.03 μg/g	0.05 μg/g	PASS
METHYL PARATHION	Any amount	ND	0.03 μg/g	0.05 μg/g	PASS
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 DEC 09, 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
ACEPHATE	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		0.05 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		0.05 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



ETHOPROPHOS	Any amount	ND	0.03 µg/g		PASS
ETOFENPROX	Any amount	ND	0.03 µg/g		PASS
ETOXAZOLE	0.1 μg/g	ND	0.03 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		PASS
FIPRONIL	Any amount	ND	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	0.05 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	0.03 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	0.05 μg/g	PASS
SPIROTETRAMAT	0.1 µg/g	ND	0.03 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- IN	0.1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS

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

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
ARSENIC	0.2 μg/g	< LOQ	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	< LOQ	0.004 µg/g	0.02 μg/g	PASS
MERCURY	0.1 µg/g	< LOQ	0.001 μg/g	0.004 µg/g	PASS



# BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM DEC 08, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.61 Aw	PASS

# BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY DEC 06, 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

