

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

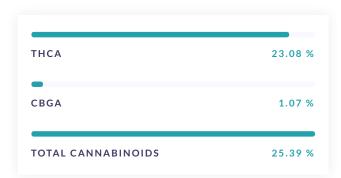
2019\_09\_21\_COO\_FL (FLOWER) // CLIENT: WALNUT LLC

**BATCH RESULT: PASS** 



BATCH NO.: 2019\_09\_21\_COO\_FL

MATRIX: FLOWER CATEGORY: INHALABLE **SAMPLE ID:** BCL-191018-002 COLLECTED ON: OCT 18, 2019 RECEIVED ON: OCT 18, 2019 BATCH SIZE: 2802 GRAMS SAMPLE SIZE: 14 GRAMS







PASS



PASS



PASS









**CANNABINOIDS** 

HEAVY METALS WATER ACTIVITY PASS PASS

MATERIALS PASS

#### **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

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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
CBC		0.03066 %	0.3066 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBCA		0.38272 %	3.8272 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		0.06835 %	0.6835 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		0.08972 %	0.8972 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBGA		1.07451 %	10.7451 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 <sup>8</sup> -ΤΗC		ND	ND	0.025 mg/g	0.1 mg/g	N/A
Δ <sup>9</sup> -ΤΗC		0.5814 %	5.814 mg/g	0.025 mg/g	0.1 mg/g	N/A
THCA		23.08134 %	230.8134 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
THCVA		0.08473 %	0.8473 mg/g	0.025 mg/g	0.1 mg/g	N/A
TOTAL THC (TOTAL THC = (THCA X 0.877)	+ THC)	20.82374 %	208.2374 mg/g			N/A
TOTAL CBD (TOTAL CBD = (CBDA X 0.877)	+ CBD)	0.05995 %	0.5995 mg/g			N/A



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

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
TOTAL TERPENES		2.59741 %	25.9741 mg/g	N/A
β-CARYOPHYLLENE		1.16374 %	11.6374 mg/g	N/A
α-HUMULENE		0.39779 %	3.9779 mg/g	N/A
D-LIMONENE		0.39677 %	3.9677 mg/g	N/A
LINALOOL		0.23164 %	2.3164 mg/g	N/A
β-PINENE		0.22486 %	2.2486 mg/g	N/A
β-MYRCENE		0.08453 %	0.8453 mg/g	N/A
α-PINENE		0.05042 %	0.5042 mg/g	N/A
α-BISABOLOL		0.04766 %	0.4766 mg/g	N/A
P-CYMENE		ND	ND	N/A
y-TERPINENE		ND	ND	N/A
CIS-NEROLIDOL		ND	ND	N/A
β-OCIMENE		ND	ND	N/A
1,8-CINEOLE		ND	ND	N/A
α-TERPINENE		ND	ND	N/A
CAMPHENE		ND	ND	N/A
α-O C I M E N E		ND	ND	N/A
TERPINOLENE		ND	ND	N/A



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

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



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
MOISTURE		7 %	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	N D	PASS
ASPERGILLUS NIGER	Any amount in 1 gram	N D	PASS
ASPERGILLUS TERREUS	Any amount in 1 gram	N D	PASS
ESCHERICHIA COLI	Any amount in 1 gram	N D	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

CYPERMETHRIN         1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           DICHLORVOS         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           METHYL PARATHION         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           PENTACHLORONI- TROBENZENE         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS	ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
METHYL PARATHION         Any amount         ND μg/g μg/g         PASS           PENTACHLORONI-         0.1 μg/g         ND 0.03 0.05 μg/g μg/g         PASS	CYPERMETHRIN	1 μg/g	ND			PASS
PARATHION         Any amount         ND μg/g μg/g         PASS           PENTACHLORONI-         0.1 μg/g         ND 0.03 0.05         PASS	DICHLORVOS	Any amount	ND			PASS
0.1 µg/g ND PASS		Any amount	ND			PASS
		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		0.05 µg/g	PASS	IMIDACLOPRID	5 μg/g	ND	0.03 µg/g	0.05 µg/g	PASS
АСЕРНАТЕ	0.1 μg/g	ND		0.05 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		0.05 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		0.05 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		0.05 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	0.03 µg/g	0.05 µg/g	PASS
DIMETHOMORPH	2 μg/g	ND		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 μg/g μg/g         PASS           SPINETORAM         0.1 μg/g         ND         0.03 μg/g μg/g         PASS           SPINOSAD         0.1 μg/g         ND         0.03 μg/g μg/g         PASS           SPIROMESIFEN         0.1 μg/g         ND         0.03 μg/g μg/g         PASS           SPIROTETRAMAT         0.1 μg/g         ND         0.03 μg/g μg/g         PASS           SPIROXAMINE         Any amount         ND         0.03 μg/g μg/g         PASS           TEBUCONAZOLE         0.1 μg/g         ND         0.03 μg/g μg/g         PASS           THIACLOPRID         Any amount         ND         0.03 μg/g 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					
SPINETORAM         0.1 μg/g         ND μg/g         μg/g         μg/g         μg/g           SPINOSAD         0.1 μg/g         ND 0.03 0.05 μg/g μg/g         PASS           SPIROMESIFEN         0.1 μg/g         ND 0.03 0.05 μg/g μg/g         PASS           SPIROTETRAMAT         0.1 μg/g         ND 0.03 0.05 μg/g μg/g         PASS           SPIROXAMINE         Any amount         ND 0.03 0.05 μg/g μg/g         PASS           TEBUCONAZOLE         0.1 μg/g         ND 0.03 0.05 μg/g μg/g         PASS           THIACLOPRID         Any amount         ND 0.03 0.05 μg/g μg/g         PASS           THIAMETHOXAM         5 μg/g         ND 0.03 0.05 μg/g μg/g         PASS           TRIFLOXYSTROB-         0.1 μg/g         ND 0.03 0.05 μg/g μg/g         PASS	PYRIDABEN	0.1 µg/g	ND		PASS
SPINOSAD         0.1 μg/g         ND         μg/g         μg/g         μg/g         PASS           SPIROMESIFEN         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           SPIROTETRAMAT         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           SPIROXAMINE         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           TEBUCONAZOLE         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           THIACLOPRID         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           THIAMETHOXAM         5 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           TRIFLOXYSTROB-         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS	SPINETORAM	0.1 µg/g	ND		PASS
SPIROMESIFEN         0.1 μg/g         ND         μg/g         μg/g         μg/g         μg/g           SPIROTETRAMAT         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           SPIROXAMINE         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           TEBUCONAZOLE         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           THIACLOPRID         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           THIAMETHOXAM         5 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           TRIFLOXYSTROB-         0.1 μg/g         ND         0.03 0.05 μg/g         PASS	SPINOSAD	0.1 µg/g	ND		PASS
SPIROTETRAMAT         0.1 μg/g         ND         μg/g         μg/g         μg/g         PASS           SPIROXAMINE         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           TEBUCONAZOLE         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           THIACLOPRID         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           THIAMETHOXAM         5 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           TRIFLOXYSTROB-         0.1 μg/g         ND         0.03 0.05 μg/g         PASS	SPIROMESIFEN	0.1 µg/g	ND		PASS
TEBUCONAZOLE         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           THIACLOPRID         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           THIAMETHOXAM         5 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           TRIFLOXYSTROB-         0.1 μg/g         ND         0.03 0.05 μg/g         PASS	SPIROTETRAMAT	0.1 µg/g	ND		PASS
THIACLOPRID         Any amount         ND         0.03 0.05 μg/g μg/g         PASS           THIAMETHOXAM         5 μg/g         ND         0.03 0.05 μg/g μg/g         PASS           TRIFLOXYSTROB-         0.1 μg/g         ND         0.03 0.05 μg/g μg/g         PASS	SPIROXAMINE	Any amount	ND		PASS
THIACLOPRID         Any amount         ND         μg/g         μg/g         μg/g           THIAMETHOXAM         5 μg/g         ND         0.03 0.05 μg/g         PASS           TRIFLOXYSTROB-         0.1 μg/g         ND         0.03 0.05 PASS	TEBUCONAZOLE	0.1 µg/g	ND		PASS
TRIFLOXYSTROB-  0.1 μg/g ND 0.03 0.05 PASS	THIACLOPRID	Any amount	ND		PASS
0.1 ug/g ND PASS	THIAMETHOXAM	5 µg/g	ND		PASS
		0.1 µg/g	ND		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	< LOQ	0.004 μg/g	0.011 μg/g	PASS
CADMIUM	0.2 μg/g	0.011 μg/g	0.004 µg/g	0.011 μg/g	PASS
LEAD	0.5 μg/g	0.019 μg/g	0.006 µg/g	0.019 µg/g	PASS
MERCURY	0.1 μg/g	< LOQ	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	0.53 Aw	PASS

## BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY OCT 19, 2019



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

