

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

CA LICENSE #: C8-0000008-LIC

#### **CERTIFICATE OF ANALYSIS**

PRODUCED: OCT 18, 2019

2019-09-17\_BLACK ORCHID\_FL (FLOWER) // CLIENT: WALNUT LLC

**BATCH RESULT: PASS** 



BATCH NO.: 2019-09-17\_BLACK ORCHID\_FL

MATRIX: FLOWER
CATEGORY: INHALABLE
SAMPLE ID: BCL-191015-006
COLLECTED ON: OCT 15, 2019
RECEIVED ON: OCT 15, 2019
BATCH SIZE: 4464 GRAMS
SAMPLE SIZE: 16 GRAMS

THCA	22.89 %
DELTA-9-THC	1.04 %
TOTAL CANNABINOIDS	25.59 %







PASS





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CANNABINOIDS

PASS PASS

#### **CULTIVATOR**

WALNUT LLC 3030 WALNUT STE 160 LONG BEACH, CA 90807

LICENSE PML19-0000600

TYPE

MEDICINAL - CULTIVATOR LICENSE

#### **DISTRIBUTOR**

WALNUT LLC 3030 WALNUT STE 160 LONG BEACH, CA 90807

LICENSE C11-0001016-LIC

C11-0001016-L

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

OCT 18, 2019

## BCL-03: CANNABINOID POTENCY BY HPLC-UV OCT 17, 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		0.55661 %	5.5661 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		0.06232 %	0.6232 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	N D	0.025 mg/g	0.1 mg/g	N/A
CBG		0.07771 %	0.7771 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBGA		0.8539 %	8.539 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> -THC		1.04354 %	10.4354 mg/g	0.025 mg/g	0.1 mg/g	N/A
ТНСА		22.88512 %	228.8512 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		0.11218 %	1.1218 mg/g	0.025 mg/g	0.1 mg/g	N/A
TOTAL THC (TOTAL THC = (THCA X 0.8)	77) + THC)	21.11379 %	211.1379 mg/g			N/A
TOTAL CBD (TOTAL CBD = (CBDA X 0.8	77) + CBD)	0.05466 %	0.5466 mg/g			N/A



## BCL-09: TERPENOID TESTING BY HS-GC/FID OCT 16, 2019

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
TOTAL TERPENES		3.67669 %	36.7669 mg/g	N/A
D-LIMONENE		1.11389 %	11.1389 mg/g	N/A
β-CARYOPHYLLENE		1.03225 %	10.3225 mg/g	N/A
LINALOOL		0.30592 %	3.0592 mg/g	N/A
α-HUMULENE		0.26667 %	2.6667 mg/g	N/A
β-MYRCENE		0.24154 %	2.4154 mg/g	N/A
α-PINENE		0.2274 %	2.274 mg/g	N/A
β-PINENE		0.19611 %	1.9611 mg/g	N/A
α-BISABOLOL		0.14778 %	1.4778 mg/g	N/A
β-OCIMENE		0.14513 %	1.4513 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		N D	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 15, 2019



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

#### BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR OCT 17, 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 17, 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-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI OCT 17, 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	0.03 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		0.05 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	0.03 µg/g	0.05 μg/g	PASS	PHOSMET	0.1 µg/g	ND	0.03 µg/g	0.05 μg/g	PASS
COUMAPHOS	Any amount	ND	0.03 µg/g	0.05 μg/g	PASS	PIPERONYLBUTO- XIDE	3 µg/g	ND	0.03 µg/g	0.05 μg/g	PASS
DAMINOZIDE	Any amount	ND		0.05 μg/g	PASS	PRALLETHRIN	0.1 µg/g	ND	0.03 µg/g	0.05 μg/g	PASS
DIAZINON	0.1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS	PROPICONAZOLE	0.1 µg/g	ND	0.03 µg/g	0.05 μg/g	PASS
DIMETHOATE	Any amount	ND	0.03 µg/g	0.05 μg/g	PASS	PROPOXUR	Any amount	ND	0.03 μg/g	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	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
ETOFENPROX	Any amount	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
ETOXAZOLE	0.1 μg/g	ND		0.05 µg/g	PASS	SPINOSAD	0.1 µg/g	ND	0.03 µg/g		PASS
FENHEXAMID	0.1 μg/g	ND		0.05 µg/g	PASS	SPIROMESIFEN	0.1 µg/g	ND	0.03 µg/g		PASS
FENOXYCARB	Any amount	ND		0.05 μg/g	PASS	SPIROTETRAMAT	0.1 µg/g	ND		0.05 μg/g	PASS
FENPYROXIMATE	0.1 μg/g	ND		0.05 μg/g	PASS	SPIROXAMINE	Any amount	ND		0.05 μg/g	PASS
FIPRONIL	Any amount	ND		0.05 μg/g	PASS	TEBUCONAZOLE	0.1 µg/g	ND	0.03 µg/g	0.05 μg/g	PASS
FLONICAMID	0.1 µg/g	ND		0.05 µg/g	PASS	THIACLOPRID	Any amount	ND	0.03 µg/g	0.05 μg/g	PASS
FLUDIOXONIL	0.1 μg/g	ND		0.05 μg/g	PASS	THIAMETHOXAM	5 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS
HEXYTHIAZOX	0.1 μg/g	ND		0.05 μg/g	PASS	TRIFLOXYSTROB- IN	0.1 μg/g	ND	0.03 µg/g	0.05 μg/g	PASS



IMAZALIL

Any amount ND 0.03 0.05

PASS

BCL-13: PESTICIDE TESTING BY GC/MS OCT 18, 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-10: HEAVY METAL TESTING BY ICP-MS OCT 17, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
ARSENIC	0.2 μg/g	0.014 µg/g	0.004 µg/g	0.011 μg/g	PASS
CADMIUM	0.2 μg/g	< LOQ	0.004 µg/g	0.011 μg/g	PASS
LEAD	0.5 μg/g	ND	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 15, 2019



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

# BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY OCT 15, 2019



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

