

# CERTIFICATE OF ANALYSIS

PRODUCED: OCT 14, 2019

2019-09-13\_ORANGE SUNSET\_DRYA4\_FL (FLOWER) // CLIENT: WALNUT LLC

BATCH RESULT: **PASS****BATCH NO.:** 2019-09-13\_ORANGE  
SUNSET\_DRYA4\_FL**MATRIX:** FLOWER**CATEGORY:** INHALABLE**SAMPLE ID:** BCL-191009-002**COLLECTED ON:** OCT 09, 2019**RECEIVED ON:** OCT 09, 2019**BATCH SIZE:** 4788 GRAMS**SAMPLE SIZE:** 17 GRAMS

THCA

26.95 %

DELTA-9-THC

1.05 %

TOTAL CANNABINOIDS

29.3 %



MOISTURE

MICROBIAL  
PASSMYCOTOXINS  
PASSPESTICIDES  
PASS

TERPENOIDS



CANNABINOIDS

HEAVY METALS  
PASSWATER ACTIVITY  
PASSFOREIGN  
MATERIALS  
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

**TYPE**ADULT-USE AND MEDICINAL -  
DISTRIBUTOR LICENSEALL 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 14, 2019



## BCL-03: CANNABINOID POTENCY BY HPLC-UV

OCT 11, 2019

DRY-WEIGHT AMOUNTS SHOWN



ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	LOD	LOQ	PASS/FAIL
CBC		ND	ND	0.025 mg/g	0.1 mg/g	N/A
CBCA		0.37302 %	3.7302 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		0.08234 %	0.8234 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		0.16332 %	1.6332 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBGA		0.58088 %	5.8088 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
$\Delta^8$ -THC		ND	ND	0.025 mg/g	0.1 mg/g	N/A
$\Delta^9$ -THC		1.04835 %	10.4835 mg/g	0.025 mg/g	0.1 mg/g	N/A
THCA		26.95203 %	269.5203 mg/g	0.025 mg/g	0.1 mg/g	N/A
THCV		ND	ND	0.025 mg/g	0.1 mg/g	N/A
THCVA		0.10135 %	1.0135 mg/g	0.025 mg/g	0.1 mg/g	N/A
<b>TOTAL THC</b> (TOTAL THC = (THCA X 0.877) + THC)		24.68528 %	246.8528 mg/g			N/A
<b>TOTAL CBD</b> (TOTAL CBD = (CBDA X 0.877) + CBD)		0.07221 %	0.7221 mg/g			N/A



BCL-09: TERPENOID TESTING BY HS-GC/FID  
OCT 13, 2019

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
TOTAL TERPENES		2.77061 %	27.7061 mg/g	N/A
$\beta$ -PINENE		0.74257 %	7.4257 mg/g	N/A
D-LIMONENE		0.63592 %	6.3592 mg/g	N/A
LINALOOL		0.46745 %	4.6745 mg/g	N/A
$\beta$ -CARYOPHYLLENE		0.46552 %	4.6552 mg/g	N/A
$\beta$ -MYRCENE		0.1416 %	1.416 mg/g	N/A
$\alpha$ -HUMULENE		0.11319 %	1.1319 mg/g	N/A
$\alpha$ -BISABOLOL		0.07658 %	0.7658 mg/g	N/A
$\alpha$ -PINENE		0.07598 %	0.7598 mg/g	N/A
TRANS-NEROLIDOL		0.0518 %	0.518 mg/g	N/A
TERPINOLENE		ND	ND	N/A
$\alpha$ -OCIMENE		ND	ND	N/A
CAMPHERE		ND	ND	N/A
$\alpha$ -TERPINENE		ND	ND	N/A
ISOPULEGOL		ND	ND	N/A
GUAJOL		ND	ND	N/A
$\beta$ -OCIMENE		ND	ND	N/A
GERANIOL		ND	ND	N/A



CIS-NEROLIDOL	ND	ND	N/A
$\Delta^3$ -CARENE	ND	ND	N/A
$\gamma$ -TERPINENE	ND	ND	N/A
P-CYMENE	ND	ND	N/A
1,8-CINEOLE	ND	ND	N/A

## BCL-02: MOISTURE CONTENT BY GRAVIMETRY

OCT 10, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
MOISTURE		6.8 %	N/A

## BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR

OCT 11, 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 12, 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 12, 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



# REGULATORY COMPLIANCE TESTING

<b>BIFENTHRIN</b>	3 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>BOSCALID</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>CARBARYL</b>	0.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>CARBOFURAN</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>CHLORANTRANIL-IPROLE</b>	10 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>CLOFENTEZINE</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>COUMAPHOS</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>DAMINOZIDE</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>DIAZINON</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>DIMETHOATE</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>DIMETHOMORPH</b>	2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>ETHOPROPHOS</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>ETOFENPROX</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>ETOXAZOLE</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>FENHEXAMID</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>FENOXYCARB</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>FENPYROXIMATE</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>FIPRONIL</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>FLONICAMID</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>FLUDIOXONIL</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>HEXYTHIAZOX</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS

<b>MYCLOBUTANIL</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>NALED</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>OXAMYL</b>	0.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>PACLOBUTRAZOL</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>PERMETHRIN</b>	0.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>PHOSMET</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>PIPERONYLBUTO-XIDE</b>	3 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>PRALLETHRIN</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>PROPICONAZOLE</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>PROPOXUR</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>PYRETHRINS</b>	0.5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>PYRIDABEN</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>SPINETORAM</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>SPINOSAD</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>SPIROMESIFEN</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>SPIROTETRAMAT</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>SPIROXAMINE</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>TEBUCONAZOLE</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>THIACLOPRID</b>	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
<b>THIAMETHOXAM</b>	5 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
<b>TRIFLOXYSTROB-IN</b>	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS



IMAZALIL	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
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## BCL-13: PESTICIDE TESTING BY GC/MS

OCT 13, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
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CAPTAN	0.7 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
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CHLORDANE	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
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CHLORFENAPYR	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
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CHLORPYRIFOS	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
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CYFLUTHRIN	2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
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ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
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CYPERMETHRIN	1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
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DICHLORVOS	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
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METHYL PARATHION	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
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PENTACHLORONI- TROBENZENE	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
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## BCL-10: HEAVY METAL TESTING BY ICP-MS

OCT 10, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
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ARSENIC	0.2 µg/g	< LOQ	0.004 µg/g	0.011 µg/g	PASS
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CADMIUM	0.2 µg/g	0.016 µg/g	0.004 µg/g	0.011 µg/g	PASS
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LEAD	0.5 µg/g	< LOQ	0.006 µg/g	0.019 µg/g	PASS
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MERCURY	0.1 µg/g	< LOQ	0.004 µg/g	0.013 µg/g	PASS
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## BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM

OCT 10, 2019



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

## BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY

OCT 10, 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 %	ND	PASS

