

# CERTIFICATE OF ANALYSIS

PRODUCED: DEC 17, 2019

2019\_11\_18\_BLU\_FL (FLOWER) // CLIENT: WALNUT LLC

BATCH RESULT: **PASS**

**BATCH NO.:** 2019\_11\_18\_BLU\_FL  
**MATRIX:** FLOWER  
**CATEGORY:** INHALABLE  
**SAMPLE ID:** BCL-191213-007  
**COLLECTED ON:** DEC 13, 2019  
**RECEIVED ON:** DEC 13, 2019  
**BATCH SIZE:** 10026 GRAMS  
**SAMPLE SIZE:** 36 GRAMS

THCA 23.63 %

CBGA 1.15 %

TOTAL CANNABINOIDS 26.25 %

**MOISTURE****MICROBIAL**  
PASS**MYCOTOXINS**  
PASS**PESTICIDES**  
PASS**TERPENOIDS****CANNABINOIDS****HEAVY METALS**  
PASS**WATER ACTIVITY**  
PASS**FOREIGN MATERIALS**  
PASS

## CULTIVATOR

WALNUT LLC  
3030 WALNUT STE 160  
LONG BEACH, CA 90807

### LICENSE

CCL19-0000600

### 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 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 17, 2019



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

DEC 16, 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		0.26858 %	2.6858 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
CBD A		0.07064 %	0.7064 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		0.15377 %	1.5377 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBGA		1.15488 %	11.5488 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		0.86014 %	8.6014 mg/g	0.025 mg/g	0.1 mg/g	N/A
THCA		23.62945 %	236.2945 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		0.10907 %	1.0907 mg/g	0.025 mg/g	0.1 mg/g	N/A
<b>TOTAL THC</b> (TOTAL THC = (THCA X 0.877) + THC)		21.58317 %	215.8317 mg/g			N/A
<b>TOTAL CBD</b> (TOTAL CBD = (CBDA X 0.877) + CBD)		0.06195 %	0.6195 mg/g			N/A



BCL-09: TERPENOID TESTING BY HS-GC/FID  
 DEC 15, 2019

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
TOTAL TERPENES		2.13631 %	21.3631 mg/g	N/A
$\beta$ -PINENE		0.87959 %	8.7959 mg/g	N/A
$\beta$ -CARYOPHYLLENE		0.68636 %	6.8636 mg/g	N/A
$\alpha$ -HUMULENE		0.19273 %	1.9273 mg/g	N/A
LINALOOL		0.09801 %	0.9801 mg/g	N/A
$\alpha$ -BISABOLOL		0.09546 %	0.9546 mg/g	N/A
GUAJOL		0.07841 %	0.7841 mg/g	N/A
D-LIMONENE		0.05606 %	0.5606 mg/g	N/A
TRANS-NEROLIDOL		0.04969 %	0.4969 mg/g	N/A
CAMPHENE		ND	ND	N/A
CARYOPHYLLENE OXIDE		ND	ND	N/A
CIS-NEROLIDOL		ND	ND	N/A
$\beta$ -MYRCENE		ND	ND	N/A
$\Delta^3$ -CARENE		ND	ND	N/A
$\gamma$ -TERPINENE		ND	ND	N/A
GERANIOL		ND	ND	N/A
$\alpha$ -TERPINENE		ND	ND	N/A
ISOPULEGOL		ND	ND	N/A



<b><math>\alpha</math>-PINENE</b>	ND	ND	N/A
<b>P-CYMENE</b>	ND	ND	N/A
<b>TERPINOLENE</b>	ND	ND	N/A

## BCL-02: MOISTURE CONTENT BY GRAVIMETRY

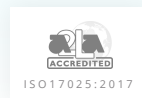
DEC 14, 2019



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

## BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR

DEC 16, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
<b>ASPERGILLUS FLAVUS</b>	Any amount in 1 gram	ND	PASS
<b>ASPERGILLUS FUMIGATUS</b>	Any amount in 1 gram	ND	PASS
<b>ASPERGILLUS NIGER</b>	Any amount in 1 gram	ND	PASS
<b>ASPERGILLUS TERREUS</b>	Any amount in 1 gram	ND	PASS
<b>ESCHERICHIA COLI</b>	Any amount in 1 gram	ND	PASS
<b>SALMONELLA SPP.</b>	Any amount in 1 gram	ND	PASS



## BCL-11: MYCOTOXIN TESTING BY LC-MS/MS

DEC 15, 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		ND	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 15, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL	ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
CAPTAN	0.7 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS	CYPERMETHRIN	1 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	DICHLORVOS	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	METHYL PARATHION	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	PENTACHLORONI-TROBENZENE	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
CYFLUTHRIN	2 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS						



# BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI

DEC 15, 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	0.03 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	0.03 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	0.03 µg/g	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



# REGULATORY COMPLIANCE TESTING

<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>IMAZALIL</b>	Any amount	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

## BCL-10: HEAVY METAL TESTING BY ICP-MS

DEC 16, 2019

ANALYTE	ACTION LIMIT	DETECTED	LOD	LOQ	PASS/FAIL
<b>ARSENIC</b>	0.2 µg/g	< LOQ	0.0002 µg/g	0.04 µg/g	PASS
<b>CADMIUM</b>	0.2 µg/g	< LOQ	0.0001 µg/g	0.04 µg/g	PASS
<b>LEAD</b>	0.5 µg/g	< LOQ	0.0005 µg/g	0.05 µg/g	PASS
<b>MERCURY</b>	0.1 µg/g	< LOQ	0.0006 µg/g	0.04 µg/g	PASS



## BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM

DEC 14, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.54 Aw	PASS

## BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY

DEC 13, 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

