

## CERTIFICATE OF ANALYSIS

PRODUCED: MAR 17, 2020

SAMPLE: 2020\_02\_22\_ORCH\_FL (FLOWER) // CLIENT: WALNUT LLC // BATCH: PASS



BATCH NO.: 2020\_02\_22\_ORCH\_FL  
 MATRIX: FLOWER  
 CATEGORY: INHALABLE  
 SAMPLE ID: BCL-200313-018  
 COLLECTED ON: MAR 13, 2020  
 RECEIVED ON: MAR 13, 2020  
 BATCH SIZE: 10298 GRAMS  
 SAMPLE SIZE: 36.5 GRAMS

## CANNABINOID OVERVIEW

TOTAL THC: 21.92382 %  
 TOTAL CBD: 0.04619 %  
 TOTAL CANNABINOIDS: 26.5267 %

## CULTIVATOR INFO

## CULTIVATOR

WALNUT LLC  
 3030 WALNUT STE 160  
 LONG BEACH, CA 90807

## LICENSE

CCL19-0000600  
 MEDICINAL - CULTIVATOR LICENSE

## DISTRIBUTOR INFO

## DISTRIBUTOR

WALNUT LLC  
 3030 WALNUT STE 160  
 LONG BEACH, CA 90807

## LICENSE

C11-0001016-LIC  
 ADULT-USE AND MEDICINAL -  
 DISTRIBUTOR LICENSE



## BCL-03: CANNABINOID POTENCY BY HPLC-UV // MAR 16, 2020

ANALYTE	AMOUNT	AMOUNT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	ND	ND	0.025/0.1	N/A
CBCA	0.48551 %	4.8551 mg/g	0.025/0.1	N/A
CBD	ND	ND	0.025/0.1	N/A
CBDA	0.05267 %	0.5267 mg/g	0.025/0.1	N/A
CBDV	ND	ND	0.025/0.1	N/A
CBDVA	ND	ND	0.025/0.1	N/A
CBG	0.05999 %	0.5999 mg/g	0.025/0.1	N/A
CBGA	0.9217 %	9.217 mg/g	0.025/0.1	N/A
CBN	ND	ND	0.025/0.1	N/A
Δ <sup>8</sup> -THC	ND	ND	0.025/0.1	N/A
Δ <sup>9</sup> -THC	0.75765 %	7.5765 mg/g	0.025/0.1	N/A
THCA	24.13474 %	241.3474 mg/g	0.025/0.1	N/A
THCV	ND	ND	0.025/0.1	N/A
THCVA	0.11444 %	1.1444 mg/g	0.025/0.1	N/A
TOTAL THC **	21.92382 %	219.2382 mg/g	N/A	N/A
TOTAL CBD **	0.04619 %	0.4619 mg/g	N/A	N/A

\*\* TOTAL THC = (THCA X 0.877) + THC

\*\* TOTAL CBD = (CBDA X 0.877) + CBD

DRY-WEIGHT AMOUNTS SHOWN

## BCL-09: TERPENOID TESTING BY HS-GC/FID // MAR 16, 2020

ANALYTE	AMOUNT	AMOUNT	PASS/FAIL
TOTAL TERPENES	2.50292 %	25.0292 mg/g	N/A
D-LIMONENE	0.72605 %	7.2605 mg/g	N/A
β-CARYOPHYLLENE	0.69459 %	6.9459 mg/g	N/A
LINALOOL	0.19202 %	1.9202 mg/g	N/A
α-BISABOLOL	0.15281 %	1.5281 mg/g	N/A
β-PINENE	0.15133 %	1.5133 mg/g	N/A
α-PINENE	0.14116 %	1.4116 mg/g	N/A
β-MYRCENE	0.13385 %	1.3385 mg/g	N/A
β-OCIMENE	0.10041 %	1.0041 mg/g	N/A
α-HUMULENE	0.2107 %	2.107 mg/g	N/A
GERANIOL	ND	ND	N/A
TERPINOLENE	ND	ND	N/A
P-CYMENE	ND	ND	N/A
ISOPULEGOL	ND	ND	N/A
GUAIOL	ND	ND	N/A
CIS-NEROLIDOL	ND	ND	N/A
γ-TERPINENE	ND	ND	N/A
Δ <sup>3</sup> -CARENE	ND	ND	N/A
CARYOPHYLLENE OXIDE	ND	ND	N/A
CAMPHERE	ND	ND	N/A
α-TERPINENE	ND	ND	N/A
α-OCIMENE	ND	ND	N/A
TRANS-NEROLIDOL	ND	ND	N/A



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  
 MAR 17, 2020



## BCL-13: PESTICIDE TESTING BY GC/MS // MAR 16, 2020

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CAPTAN	0.7 µg/g	ND	0.03/0.05	PASS
CHLORDANE	Any amount	ND	0.03/0.05	PASS
CHLORFENAPYR	Any amount	ND	0.03/0.05	PASS
CHLORPYRIFOS	Any amount	ND	0.03/0.05	PASS

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
DICHLORVOS	Any amount	ND	0.03/0.05	PASS
METHYL PARATHION	Any amount	ND	0.03/0.05	PASS
PENTACHLORONI-TROBENZENE	0.1 µg/g	ND	0.03/0.05	PASS

## BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // MAR 16, 2020

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ABAMECTIN	0.1 µg/g	ND	0.03/0.05	PASS
ACEPHATE	0.1 µg/g	ND	0.03/0.05	PASS
ACEQUINOCYL	0.1 µg/g	ND	0.03/0.05	PASS
ACETAMIPRID	0.1 µg/g	ND	0.03/0.05	PASS
ALDICARB	Any amount	ND	0.03/0.05	PASS
AZOXYSTROBIN	0.1 µg/g	ND	0.03/0.05	PASS
BIFENAZATE	0.1 µg/g	ND	0.03/0.05	PASS
BIFENTHRIN	3 µg/g	ND	0.03/0.05	PASS
BOSCALID	0.1 µg/g	ND	0.03/0.05	PASS
CARBARYL	0.5 µg/g	ND	0.03/0.05	PASS
CARBOFURAN	Any amount	ND	0.03/0.05	PASS
CHLORANTRANIL-IPROLE	10 µg/g	ND	0.03/0.05	PASS
CLOFENTEZINE	0.1 µg/g	ND	0.03/0.05	PASS
COUMAPHOS	Any amount	ND	0.03/0.05	PASS
CYFLUTHRIN	2 µg/g	ND	0.03/0.05	PASS
CYPERMETHRIN	1 µg/g	ND	0.03/0.05	PASS
DAMINOZIDE	Any amount	ND	0.03/0.05	PASS
DIAZINON	0.1 µg/g	ND	0.03/0.05	PASS
DIMETHOATE	Any amount	ND	0.03/0.05	PASS
DIMETHOMORPH	2 µg/g	ND	0.03/0.05	PASS
ETHOPROPHOS	Any amount	ND	0.03/0.05	PASS
ETOXAZOLE	0.1 µg/g	ND	0.03/0.05	PASS
FENHEXAMID	0.1 µg/g	ND	0.03/0.05	PASS
FENOXYCARB	Any amount	ND	0.03/0.05	PASS
FENPYROXIMATE	0.1 µg/g	ND	0.03/0.05	PASS
FIPRONIL	Any amount	ND	0.03/0.05	PASS
FLONICAMID	0.1 µg/g	ND	0.03/0.05	PASS
FLUDIOXONIL	0.1 µg/g	ND	0.03/0.05	PASS
HEXYTHIAZOX	0.1 µg/g	ND	0.03/0.05	PASS

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
IMAZALIL	Any amount	ND	0.03/0.05	PASS
IMIDACLOPRID	5 µg/g	ND	0.03/0.05	PASS
KRESOXIM-METHYL	0.1 µg/g	ND	0.03/0.05	PASS
MALATHION	0.5 µg/g	ND	0.03/0.05	PASS
METALAXYL	2 µg/g	ND	0.03/0.05	PASS
METHIOCARB	Any amount	ND	0.03/0.05	PASS
METHOMYL	1 µg/g	ND	0.03/0.05	PASS
MEVINPHOS	Any amount	ND	0.03/0.05	PASS
MYCLOBUTANIL	0.1 µg/g	ND	0.03/0.05	PASS
NALED	0.1 µg/g	ND	0.03/0.05	PASS
OXAMYL	0.5 µg/g	ND	0.03/0.05	PASS
PACLOBUTRAZOL	Any amount	ND	0.03/0.05	PASS
PERMETHRIN	0.5 µg/g	ND	0.03/0.05	PASS
PHOSMET	0.1 µg/g	ND	0.03/0.05	PASS
PIPERONYLBUTOXIDE	3 µg/g	ND	0.03/0.05	PASS
PRALLETHRIN	0.1 µg/g	ND	0.03/0.05	PASS
PROPICONAZOLE	0.1 µg/g	ND	0.03/0.05	PASS
PROPOXUR	Any amount	ND	0.03/0.05	PASS
PYRETHRINS	0.5 µg/g	ND	0.03/0.05	PASS
PYRIDABEN	0.1 µg/g	ND	0.03/0.05	PASS
SPINETORAM	0.1 µg/g	ND	0.03/0.05	PASS
SPINOSAD	0.1 µg/g	ND	0.03/0.05	PASS
SPIROMESIFEN	0.1 µg/g	ND	0.03/0.05	PASS
SPIROTETRAMAT	0.1 µg/g	ND	0.03/0.05	PASS
SPIROXAMINE	Any amount	ND	0.03/0.05	PASS
TEBUCONAZOLE	0.1 µg/g	ND	0.03/0.05	PASS
THIACLOPRID	Any amount	ND	0.03/0.05	PASS
THIAMETHOXAM	5 µg/g	ND	0.03/0.05	PASS
TRIFLOXYSTROBIN	0.1 µg/g	ND	0.03/0.05	PASS



## BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // MAR 14, 2020

ANALYTE	LIMIT	AMOUNT (%)	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

## BCL-020: HEAVY METAL TESTING BY ICP-MS // MAR 17, 2020

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ARSENIC	0.2 µg/g	< LOQ	0.001/0.05	PASS
CADMIUM	0.2 µg/g	ND	0.0002/0.05	PASS
LEAD	0.5 µg/g	< LOQ	0.0003/0.05	PASS
MERCURY	0.1 µg/g	ND	0.0001/0.01	PASS

## BCL-02: MOISTURE CONTENT BY GRAVIMETRY // MAR 15, 2020

ANALYTE	LIMIT	AMOUNT (%)	PASS/FAIL
MOISTURE		7.6	N/A

## BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR // MAR 16, 2020

ANALYTE	LIMIT	AMOUNT (CFU)	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 // MAR 16, 2020

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

## BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM // MAR 15, 2020

ANALYTE	LIMIT	AMOUNT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.61	PASS

