

# CERTIFICATE OF ANALYSIS

PRODUCED: SEP 30, 2019

2019-09-03\_BLACK ORCHID\_DRYC4\_FL (FLOWER) // CLIENT: WALNUT LLC

BATCH RESULT: **PASS**

BATCH NO.: 1A406030000196500001309

MATRIX: FLOWER

CATEGORY: INHALABLE

SAMPLE ID: BCL-190925-024

COLLECTED ON: SEP 25, 2019

RECEIVED ON: SEP 25, 2019

BATCH SIZE: 3372 GRAMS

SAMPLE SIZE: 12 GRAMS

THCA

20.26 %

DELTA-9-THC

0.8 %

TOTAL CANNABINOIDS

22.62 %



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

SEP 30, 2019



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

SEP 27, 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                                                   |                | 0.63683 %  | 6.3683 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                                                  |                | 0.04463 %  | 0.4463 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                                                    |                | 0.05692 %  | 0.5692 mg/g   | 0.025 mg/g | 0.1 mg/g | N/A       |
| CBGA                                                   |                | 0.72317 %  | 7.2317 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                                        |                | 0.80341 %  | 8.0341 mg/g   | 0.025 mg/g | 0.1 mg/g | N/A       |
| THCA                                                   |                | 20.26038 % | 202.6038 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                                                  |                | 0.09414 %  | 0.9414 mg/g   | 0.025 mg/g | 0.1 mg/g | N/A       |
| <b>TOTAL THC</b><br>(TOTAL THC = (THCA X 0.877) + THC) |                | 18.57176 % | 185.7176 mg/g |            |          | N/A       |
| <b>TOTAL CBD</b><br>(TOTAL CBD = (CBDA X 0.877) + CBD) |                | 0.03914 %  | 0.3914 mg/g   |            |          | N/A       |



## BCL-09: TERPENOID TESTING BY HS-GC/FID

SEP 28, 2019

| ANALYTE                | LABELED AMOUNT | DETECTED  | DETECTED     | PASS/FAIL |
|------------------------|----------------|-----------|--------------|-----------|
| TOTAL TERPENES         |                | 2.47741 % | 24.7741 mg/g | N/A       |
| $\beta$ -CARYOPHYLLENE |                | 0.69989 % | 6.9989 mg/g  | N/A       |
| D-LIMONENE             |                | 0.69092 % | 6.9092 mg/g  | N/A       |
| LINALOOL               |                | 0.22849 % | 2.2849 mg/g  | N/A       |
| $\alpha$ -HUMULENE     |                | 0.22469 % | 2.2469 mg/g  | N/A       |
| $\beta$ -MYRCENE       |                | 0.17033 % | 1.7033 mg/g  | N/A       |
| $\alpha$ -PINENE       |                | 0.1472 %  | 1.472 mg/g   | N/A       |
| $\beta$ -PINENE        |                | 0.11351 % | 1.1351 mg/g  | N/A       |
| $\alpha$ -BISABOLOL    |                | 0.11156 % | 1.1156 mg/g  | N/A       |
| $\beta$ -OCIMENE       |                | 0.09082 % | 0.9082 mg/g  | N/A       |
| P-CYMENE               |                | ND        | ND           | N/A       |
| $\gamma$ -TERPINENE    |                | ND        | ND           | N/A       |
| CIS-NEROLIDOL          |                | ND        | ND           | N/A       |
| 1,8-CINEOLE            |                | ND        | ND           | N/A       |
| $\alpha$ -TERPINENE    |                | ND        | ND           | N/A       |
| CAMPHENE               |                | ND        | ND           | N/A       |
| $\alpha$ -OCIMENE      |                | ND        | ND           | N/A       |
| TERPINOLENE            |                | ND        | ND           | N/A       |



|                    |    |    |     |
|--------------------|----|----|-----|
| ISOPULEGOL         | ND | ND | N/A |
| GUAJOL             | ND | ND | N/A |
| GERANIOL           | ND | ND | N/A |
| $\Delta^3$ -CARENE | ND | ND | N/A |
| TRANS-NEROLIDOL    | ND | ND | N/A |

## BCL-02: MOISTURE CONTENT BY GRAVIMETRY

SEP 26, 2019



| ANALYTE  | ACTION LIMIT | DETECTED | PASS/FAIL |
|----------|--------------|----------|-----------|
| MOISTURE |              | 7.8 %    | N/A       |

## BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR

SEP 27, 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

SEP 28, 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

SEP 28, 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<br>µg/g | 0.05<br>µg/g | PASS |
|----------|------------|----|--------------|--------------|------|

## BCL-13: PESTICIDE TESTING BY GC/MS

SEP 30, 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

SEP 28, 2019

ANALYTE ACTION LIMIT DETECTED LOD LOQ PASS/FAIL

ARSENIC 0.2 µg/g ND 0.004 µg/g 0.011 µg/g PASS

CADMIUM 0.2 µg/g 0.027 µg/g 0.004 µg/g 0.011 µg/g PASS

LEAD 0.5 µg/g 0.026 µg/g 0.006 µg/g 0.019 µg/g PASS

MERCURY 0.1 µg/g &lt; LOQ 0.004 µg/g 0.013 µg/g PASS



## BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM

SEP 26, 2019



| ANALYTE        | ACTION LIMIT | DETECTED | PASS/FAIL |
|----------------|--------------|----------|-----------|
| WATER ACTIVITY | 0.65 Aw      | 0.57 Aw  | PASS      |

## BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY

SEP 26, 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      |

