

# CERTIFICATE OF ANALYSIS

PRODUCED: OCT 18, 2019

2019-09-19\_BEYOND BLUEBERRY\_FL (FLOWER) // CLIENT: WALNUT LLC

BATCH RESULT: **PASS**

**BATCH NO.:** 2019-09-19\_BEYOND  
BLUEBERRY\_FL

**MATRIX:** FLOWER

**CATEGORY:** INHALABLE

**SAMPLE ID:** BCL-191015-007

**COLLECTED ON:** OCT 15, 2019

**RECEIVED ON:** OCT 15, 2019

**BATCH SIZE:** 6889 GRAMS

**SAMPLE SIZE:** 25 GRAMS

THCA

23.29 %

CBGA

0.95 %

TOTAL CANNABINOIDS

25.68 %



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**  
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 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 |
|--|----------------|------------|---------------|------------|----------|-----------|
| CBC  |                | ND         | ND            | 0.025 mg/g | 0.1 mg/g | N/A       |
| CBCA   |                | 0.25268 %  | 2.5268 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  |                | 0.07701 %  | 0.7701 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  |                | 0.1421 %   | 1.421 mg/g    | 0.025 mg/g | 0.1 mg/g | N/A       |
| CBGA   |                | 0.94774 %  | 9.4774 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  |                | 0.87024 %  | 8.7024 mg/g   | 0.025 mg/g | 0.1 mg/g | N/A       |
| THCA   |                | 23.29332 % | 232.9332 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  |                | 0.10047 %  | 1.0047 mg/g   | 0.025 mg/g | 0.1 mg/g | N/A       |
| <b>TOTAL THC</b><br>(TOTAL THC = (THCA X 0.877) + THC) |                | 21.29848 % | 212.9848 mg/g |            |          | N/A       |
| <b>TOTAL CBD</b><br>(TOTAL CBD = (CBDA X 0.877) + CBD) |                | 0.06753 %  | 0.6753 mg/g   |            |          | N/A       |



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

| ANALYTE                | LABELED AMOUNT | DETECTED  | DETECTED     | PASS/FAIL |
|------------------------|----------------|-----------|--------------|-----------|
| TOTAL TERPENES         |                | 3.51193 % | 35.1193 mg/g | N/A       |
| $\beta$ -PINENE        |                | 1.78995 % | 17.8995 mg/g | N/A       |
| $\beta$ -CARYOPHYLLENE |                | 0.85208 % | 8.5208 mg/g  | N/A       |
| $\alpha$ -HUMULENE     |                | 0.23702 % | 2.3702 mg/g  | N/A       |
| $\beta$ -OCIMENE       |                | 0.18995 % | 1.8995 mg/g  | N/A       |
| LINALOOL               |                | 0.185 %   | 1.85 mg/g    | N/A       |
| D-LIMONENE             |                | 0.1358 %  | 1.358 mg/g   | N/A       |
| GUAJOL                 |                | 0.12213 % | 1.2213 mg/g  | N/A       |
| 1,8-CINEOLE            |                | ND        | ND           | N/A       |
| P-CYMENE               |                | ND        | ND           | N/A       |
| $\gamma$ -TERPINENE    |                | ND        | ND           | N/A       |
| CIS-NEROLIDOL          |                | ND        | ND           | N/A       |
| $\beta$ -MYRCENE       |                | ND        | ND           | N/A       |
| $\alpha$ -PINENE       |                | ND        | ND           | N/A       |
| $\alpha$ -TERPINENE    |                | ND        | ND           | N/A       |
| CAMPHERE               |                | ND        | ND           | N/A       |
| $\alpha$ -OCIMENE      |                | ND        | ND           | N/A       |
| $\alpha$ -BISABOOL     |                | ND        | ND           | N/A       |



|                    |    |    |     |
|--------------------|----|----|-----|
| TERPINOLENE        | ND | ND | N/A |
| ISOPULEGOL         | 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

OCT 15, 2019



| ANALYTE  | ACTION LIMIT | DETECTED | PASS/FAIL |
|----------|--------------|----------|-----------|
| MOISTURE |              | 8.5 %    | 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      |



# 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

OCT 18, 2019

| ANALYTE | ACTION LIMIT | DETECTED | LOD | LOQ | PASS/FAIL |
|---------|--------------|----------|-----|-----|-----------|
|---------|--------------|----------|-----|-----|-----------|

|        |          |    |              |              |      |
|--------|----------|----|--------------|--------------|------|
| CAPTAN | 0.7 µg/g | ND | 0.03<br>µg/g | 0.05<br>µg/g | PASS |
|--------|----------|----|--------------|--------------|------|

|           |            |    |              |              |      |
|-----------|------------|----|--------------|--------------|------|
| CHLORDANE | Any amount | ND | 0.03<br>µg/g | 0.05<br>µg/g | PASS |
|-----------|------------|----|--------------|--------------|------|

|              |            |    |              |              |      |
|--------------|------------|----|--------------|--------------|------|
| CHLORFENAPYR | Any amount | ND | 0.03<br>µg/g | 0.05<br>µg/g | PASS |
|--------------|------------|----|--------------|--------------|------|

|              |            |    |              |              |      |
|--------------|------------|----|--------------|--------------|------|
| CHLORPYRIFOS | Any amount | ND | 0.03<br>µg/g | 0.05<br>µg/g | PASS |
|--------------|------------|----|--------------|--------------|------|

|            |        |    |              |              |      |
|------------|--------|----|--------------|--------------|------|
| CYFLUTHRIN | 2 µg/g | ND | 0.03<br>µg/g | 0.05<br>µg/g | PASS |
|------------|--------|----|--------------|--------------|------|

| ANALYTE | ACTION LIMIT | DETECTED | LOD | LOQ | PASS/FAIL |
|---------|--------------|----------|-----|-----|-----------|
|---------|--------------|----------|-----|-----|-----------|

|              |        |    |              |              |      |
|--------------|--------|----|--------------|--------------|------|
| CYPERMETHRIN | 1 µg/g | ND | 0.03<br>µg/g | 0.05<br>µg/g | PASS |
|--------------|--------|----|--------------|--------------|------|

|            |            |    |              |              |      |
|------------|------------|----|--------------|--------------|------|
| DICHLORVOS | Any amount | ND | 0.03<br>µg/g | 0.05<br>µg/g | PASS |
|------------|------------|----|--------------|--------------|------|

|                     |            |    |              |              |      |
|---------------------|------------|----|--------------|--------------|------|
| METHYL<br>PARATHION | Any amount | ND | 0.03<br>µg/g | 0.05<br>µg/g | PASS |
|---------------------|------------|----|--------------|--------------|------|

|                              |          |    |              |              |      |
|------------------------------|----------|----|--------------|--------------|------|
| PENTACHLORONI-<br>TROBENZENE | 0.1 µg/g | ND | 0.03<br>µg/g | 0.05<br>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 | 0.014 µg/g | 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 %         | 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      |

