

BELCOSTA LABS // 1131 E. SOUTH STREET LONG BEACH CA 90805 // PH: (562) 676-4206

CA LICENSE #: C8-0000008-LIC

CERTIFICATE OF ANALYSIS

PRODUCED: JAN 07, 2020

2019_12_11_ORCH_FL (FLOWER) // CLIENT: WALNUT LLC

BATCH RESULT: PASS



BATCH NO.: 2019_12_11_ORCH_FL

MATRIX: FLOWER CATEGORY: INHALABLE **SAMPLE ID:** BCL-200103-035 COLLECTED ON: JAN 03, 2020 RECEIVED ON: JAN 03, 2020 BATCH SIZE: 2645 GRAMS SAMPLE SIZE: 12 GRAMS









PASS



PASS









CANNABINOIDS

HEAVY METALS WATER ACTIVITY PASS PASS

MATERIALS PASS

CULTIVATOR

WALNUT LLC 3030 WALNUT STE 160 LONG BEACH, CA 90807

LICENSE CCI 19-0000600

MEDICINAL - CULTIVATOR LICENSE

DISTRIBUTOR

WALNUT LLC 3030 WALNUT STE 160 LONG BEACH, CA 90807

LICENSE

C11-0001016-LIC

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

BCL-03: CANNABINOID POTENCY BY HPLC-UV

JAN 06, 2020

DRY-WEIGHT AMOUNTS SHOWN



| ANALYTE | LABELED AMOUNT | DETECTED | DETECTED | LOD | LOQ | PASS/FAIL |
|----------------------------------------|----------------|------------|---------------|------------|----------|-----------|
| CBC | | 0.04947 % | 0.4947 mg/g | 0.025 mg/g | 0.1 mg/g | N/A |
| CBCA | | 1.2683 % | 12.683 mg/g | 0.025 mg/g | 0.1 mg/g | N/A |
| CBD | | ND | N D | 0.025 mg/g | 0.1 mg/g | N/A |
| CBDA | | 0.05316 % | 0.5316 mg/g | 0.025 mg/g | 0.1 mg/g | N/A |
| CBDV | | ND | N D | 0.025 mg/g | 0.1 mg/g | N/A |
| CBDVA | | ND | N D | 0.025 mg/g | 0.1 mg/g | N/A |
| CBG | | 0.06734 % | 0.6734 mg/g | 0.025 mg/g | 0.1 mg/g | N/A |
| CBGA | | 0.85431 % | 8.5431 mg/g | 0.025 mg/g | 0.1 mg/g | N/A |
| CBN | | ND | N D | 0.025 mg/g | 0.1 mg/g | N/A |
| Δ ⁸ -ΤΗC | | ND | N D | 0.025 mg/g | 0.1 mg/g | N/A |
| Δ ⁹ -ΤΗC | | 0.86092 % | 8.6092 mg/g | 0.025 mg/g | 0.1 mg/g | N/A |
| ТНСА | | 21.99903 % | 219.9903 mg/g | 0.025 mg/g | 0.1 mg/g | N/A |
| тнсv | | ND | N D | 0.025 mg/g | 0.1 mg/g | N/A |
| THCVA | | 0.1068 % | 1.068 mg/g | 0.025 mg/g | 0.1 mg/g | N/A |
| TOTAL THC (TOTAL THC = (THCA X 0.8) | 77) + THC) | 20.15407 % | 201.5407 mg/g | | | N/A |
| TOTAL CBD (TOTAL CBD = (CBDA X 0.8) | 77) + CBD) | 0.04662 % | 0.4662 mg/g | | | N/A |



BCL-09: TERPENOID TESTING BY HS-GC/FID JAN 06, 2020

| ANALYTE | LABELED AMOUNT | DETECTED | DETECTED | PASS/FAIL |
|------------------------|----------------|-----------|--------------|-----------|
| TOTAL TERPENES | | 2.30731 % | 23.0731 mg/g | N/A |
| β-CARYOPHYLLENE | | 0.76438 % | 7.6438 mg/g | N/A |
| D-LIMONENE | | 0.64246 % | 6.4246 mg/g | N/A |
| α-HUMULENE | | 0.21814 % | 2.1814 mg/g | N/A |
| LINALOOL | | 0.15299 % | 1.5299 mg/g | N/A |
| α-BISABOLOL | | 0.13756 % | 1.3756 mg/g | N/A |
| β-MYRCENE | | 0.12571 % | 1.2571 mg/g | N/A |
| α-PINENE | | 0.10659 % | 1.0659 mg/g | N/A |
| β-PINENE | | 0.10076 % | 1.0076 mg/g | N/A |
| CIS-NEROLIDOL | | 0.02063 % | 0.2063 mg/g | N/A |
| CAMPHENE | | 0.01991 % | 0.1991 mg/g | N/A |
| CARYOPHYLLENE OXIDE | | 0.01818 % | 0.1818 mg/g | N/A |
| α-TERPINENE | | ND | ND | N/A |
| Δ ³ -CARENE | | ND | ND | N/A |
| y-TERPINENE | | ND | ND | N/A |
| GERANIOL | | ND | ND | N/A |
| GUAIOL | | ND | ND | N/A |
| ISOPULEGOL | | ND | N D | N/A |



| P-CYMENE | ND | ND N/A | |
|-----------------|-----|--------|---|
| TERPINOLENE | ND | ND N/A | L |
| TRANS-NEROLIDOL | N D | ND N/A | |

BCL-02: MOISTURE CONTENT BY GRAVIMETRY JAN 05, 2020



| ANALYTE | ACTION LIMIT | DETECTED | PASS/FAIL |
|----------|--------------|----------|-----------|
| MOISTURE | | 6.3 % | N/A |

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR JAN 06, 2020



| 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 JAN 06, 2020

| ANALYTE | ACTION LIMIT | DETECTED | LOD | LOQ | PASS/FAIL |
|--------------|--------------|----------|-------------|--------------|-----------|
| AFLATOXIN B1 | | ND | 1.476 µg/kg | 4.472 μg/kg | N/A |
| AFLATOXIN B2 | | N D | 1.683 µg/kg | 5.101 μg/kg | N/A |
| AFLATOXIN G1 | | N D | 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 | N D | 3.312 μg/kg | 10.037 μg/kg | PASS |

BCL-13: PESTICIDE TESTING BY GC/MS JAN 06, 2020

| 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-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI JAN 06, 2020

| ANALYTE | ACTION LIMIT | DETECTED | LOD | LOQ | PASS/FAIL | ANALYTE | ACTION LIMIT | DETECTED | LOD | LOQ | PASS/FAIL |
|--------------------------|--------------|----------|--------------|--------------|-----------|------------------------|--------------|----------|--------------|--------------|-----------|
| ABAMECTIN | 0.1 μg/g | ND | | 0.05 µg/g | PASS | IMIDACLOPRID | 5 μg/g | ND | 0.03 µg/g | | PASS |
| АСЕРНАТЕ | 0.1 μg/g | ND | | 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 | | 0.05 μg/g | PASS | MALATHION | 0.5 μg/g | ND | 0.03 µg/g | 0.05 µg/g | PASS |
| ACETAMIPRID | 0.1 μg/g | ND | | 0.05 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 | | 0.05 μg/g | PASS | METHOMYL | 1 μg/g | ND | 0.03 µg/g | 0.05 μg/g | PASS |
| BIFENAZATE | 0.1 μg/g | ND | | 0.05 μg/g | PASS | MEVINPHOS | Any amount | ND | 0.03 µg/g | 0.05 μg/g | PASS |
| BIFENTHRIN | 3 μg/g | ND | | 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 | | 0.05 μg/g | PASS | NALED | 0.1 μg/g | ND | 0.03 µg/g | 0.05 μg/g | PASS |
| CARBARYL | 0.5 μg/g | ND | | 0.05 μg/g | PASS | OXAMYL | 0.5 μg/g | ND | 0.03 µg/g | 0.05 μg/g | PASS |
| CARBOFURAN | Any amount | ND | | 0.05 μg/g | PASS | PACLOBUTRAZOL | Any amount | ND | 0.03 µg/g | 0.05 µg/g | PASS |
| CHLORANTRANIL- IPROLE | 10 μg/g | ND | | 0.05 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 | | PASS |
| COUMAPHOS | Any amount | ND | | 0.05 μg/g | PASS | PIPERONYLBUTO- XIDE | 3 μg/g | ND | | 0.05 µg/g | PASS |
| DAMINOZIDE | Any amount | ND | | 0.05 µg/g | PASS | PRALLETHRIN | 0.1 μg/g | ND | | 0.05 µg/g | PASS |
| DIAZINON | 0.1 μg/g | ND | | 0.05 μg/g | PASS | PROPICONAZOLE | 0.1 μg/g | ND | | 0.05 µg/g | PASS |
| DIMETHOATE | Any amount | ND | | 0.05 μg/g | PASS | PROPOXUR | Any amount | ND | 0.03 µg/g | 0.05 µg/g | PASS |
| DIMETHOMORPH | 2 μg/g | ND | | 0.05 μg/g | PASS | PYRETHRINS | 0.5 μg/g | ND | | 0.05 µg/g | PASS |



https://lims.tagleaf.com/coa_/osI05ZZKvv

| ETHOPROPHOS | Any amount | ΝD | 0.03 µg/g | | PASS |
|---------------|------------|----|--------------|--------------|------|
| ETOFENPROX | Any amount | ΝD | 0.03 µg/g | | PASS |
| ETOXAZOLE | 0.1 μg/g | ΝD | 0.03 µg/g | 0.05 μg/g | PASS |
| FENHEXAMID | 0.1 μg/g | ND | 0.03 µg/g | | PASS |
| FENOXYCARB | Any amount | ND | 0.03 µg/g | | PASS |
| FENPYROXIMATE | 0.1 μg/g | ND | 0.03 µg/g | 0.05 μg/g | PASS |
| FIPRONIL | Any amount | ND | 0.03 µg/g | 0.05 μg/g | PASS |
| FLONICAMID | 0.1 μg/g | ND | 0.03 µg/g | | PASS |
| FLUDIOXONIL | 0.1 μg/g | ND | 0.03 µg/g | | PASS |
| HEXYTHIAZOX | 0.1 μg/g | ND | 0.03 µg/g | | PASS |
| IMAZALIL | Any amount | ND | 0.03 µg/g | | PASS |

| PYRIDABEN | 0.1 µg/g | ND | 0.03 µg/g | | PASS |
|----------------------|------------|----|--------------|--------------|------|
| SPINETORAM | 0.1 µg/g | ND | 0.03 µg/g | | PASS |
| SPINOSAD | 0.1 µg/g | ND | 0.03 µg/g | 0.05 μg/g | PASS |
| SPIROMESIFEN | 0.1 µg/g | ND | 0.03 µg/g | | PASS |
| SPIROTETRAMAT | 0.1 μg/g | ND | 0.03 µg/g | | PASS |
| SPIROXAMINE | Any amount | ND | 0.03 µg/g | | PASS |
| TEBUCONAZOLE | 0.1 µg/g | ND | 0.03 µg/g | | PASS |
| THIACLOPRID | Any amount | ND | 0.03 µg/g | | PASS |
| THIAMETHOXAM | 5 µg/g | ND | 0.03 µg/g | 0.05 μg/g | PASS |
| TRIFLOXYSTROB- IN | 0.1 µg/g | ND | 0.03 µg/g | | PASS |

BCL-10: HEAVY METAL TESTING BY ICP-MS JAN 06, 2020

| ANALYTE | ACTION LIMIT | DETECTED | LOD | LOQ | PASS/FAIL |
|---------|--------------|----------|-------------|-----------|-----------|
| ARSENIC | 0.2 μg/g | < LOQ | 0.0006 µg/g | 0.04 µg/g | PASS |
| CADMIUM | 0.2 µg/g | < LOQ | 0.0001 μg/g | 0.04 μg/g | PASS |
| LEAD | 0.5 µg/g | < LOQ | 0.0045 μg/g | 0.09 μg/g | PASS |
| MERCURY | 0.1 µg/g | < LOQ | 0.001 µg/g | 0.04 µg/g | PASS |



BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM JAN 05, 2020



| ANALYTE | ACTION LIMIT | DETECTED | PASS/FAIL |
|----------------|--------------|----------|-----------|
| WATER ACTIVITY | 0.65 Aw | 0.56 Aw | PASS |

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY JAN 04, 2020



| ANALYTE | ACTION LIMIT | DETECTED | PASS/FAIL |
|---------------------------|--------------|----------|-----------|
| CINDERS | 25 % | ND | PASS |
| DIRT | 25 % | ND | PASS |
| IMBEDDED FOREIGN MATERIAL | 25 % | ND | PASS |
| INSECT FRAGMENTS | 1 Unit | N D | PASS |
| MAMMAL EXCREMENT | 1 Unit | ND | PASS |
| MOLD | 25 % | ND | PASS |
| RODENT HAIR | 1 Unit | ND | PASS |
| SAND | 25 % | ND | PASS |
| SOIL | 25 % | N D | PASS |

