

CERTIFICATE OF ANALYSIS

PRODUCED: JAN 09, 2020

2019_12_16_PINE_FL (FLOWER) // CLIENT: WALNUT LLC

BATCH RESULT: **PASS**

BATCH NO.: 2019_12_16_PINE_FL
MATRIX: FLOWER
CATEGORY: INHALABLE
SAMPLE ID: BCL-200106-002
COLLECTED ON: JAN 06, 2020
RECEIVED ON: JAN 06, 2020
BATCH SIZE: 2813 GRAMS
SAMPLE SIZE: 12 GRAMS

THCA 28.29 %

CBGA 0.79 %

TOTAL CANNABINOIDS 30.43 %

**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

JAN 09, 2020



BCL-03: CANNABINOID POTENCY BY HPLC-UV

JAN 08, 2020

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		0.46128 %	4.6128 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		0.07692 %	0.7692 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		0.11499 %	1.1499 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBGA		0.79174 %	7.9174 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
Δ^8 -THC		ND	ND	0.025 mg/g	0.1 mg/g	N/A
Δ^9 -THC		0.53388 %	5.3388 mg/g	0.025 mg/g	0.1 mg/g	N/A
THCA		28.2864 %	282.864 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		0.16424 %	1.6424 mg/g	0.025 mg/g	0.1 mg/g	N/A
TOTAL THC (TOTAL THC = (THCA X 0.877) + THC)		25.34105 %	253.4105 mg/g			N/A
TOTAL CBD (TOTAL CBD = (CBDA X 0.877) + CBD)		0.06746 %	0.6746 mg/g			N/A



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

JAN 08, 2020

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
TOTAL TERPENES		1.96421 %	19.6421 mg/g	N/A
β-PINENE		0.50423 %	5.0423 mg/g	N/A
D-LIMONENE		0.45084 %	4.5084 mg/g	N/A
β-CARYOPHYLLENE		0.42747 %	4.2747 mg/g	N/A
LINALOOL		0.22166 %	2.2166 mg/g	N/A
α-HUMULENE		0.14629 %	1.4629 mg/g	N/A
β-MYRCENE		0.07503 %	0.7503 mg/g	N/A
α-PINENE		0.04171 %	0.4171 mg/g	N/A
α-BISABOLOL		0.03416 %	0.3416 mg/g	N/A
TRANS-NEROLIDOL		0.02152 %	0.2152 mg/g	N/A
CAMPHENE		0.01626 %	0.1626 mg/g	N/A
CARYOPHYLLENE OXIDE		0.01346 %	0.1346 mg/g	N/A
TERPINOLENE		0.01158 %	0.1158 mg/g	N/A
CIS-NEROLIDOL		ND	ND	N/A
Δ ³ -CARENE		ND	ND	N/A
γ-TERPINENE		ND	ND	N/A
GERANIOL		ND	ND	N/A
GUAJOL		ND	ND	N/A



ISOPULEGOL	ND	ND	N/A
α -TERPINENE	ND	ND	N/A
P-CYMENE	ND	ND	N/A

BCL-02: MOISTURE CONTENT BY GRAVIMETRY

JAN 07, 2020



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
MOISTURE		6.5 %	N/A

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR

JAN 08, 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 08, 2020

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

JAN 08, 2020

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

BIFENTHRIN	3 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
CARBARYL	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
CHLORANTRANIL-IPROLE	10 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
COUMAPHOS	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
DAMINOZIDE	Any amount	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
DIMETHOATE	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
ETHOPROPHOS	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
ETOFENPROX	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
ETOXAZOLE	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
FENHEXAMID	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
FENOXYCARB	Any amount	ND	0.03 µg/g	0.05 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	0.05 µg/g	PASS
FLUDIOXONIL	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
HEXYTHIAZOX	0.1 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
NALED	0.1 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
PACLOBUTRAZOL	Any amount	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
PHOSMET	0.1 µg/g	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
PRALLETHRIN	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
PROPOXUR	Any amount	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
PYRIDABEN	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
SPINETORAM	0.1 µg/g	ND	0.03 µg/g	0.05 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	0.05 µg/g	PASS
SPIROTETRAMAT	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
SPIROXAMINE	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
TEBUCONAZOLE	0.1 µg/g	ND	0.03 µg/g	0.05 µg/g	PASS
THIACLOPRID	Any amount	ND	0.03 µg/g	0.05 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	0.05 µg/g	PASS



IMAZALIL	Any amount	ND	0.03 µg/g	0.05 µg/g	PASS
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BCL-13: PESTICIDE TESTING BY GC/MS

JAN 08, 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-10: HEAVY METAL TESTING BY ICP-MS

JAN 08, 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 ND 0.001 µg/g 0.04 µg/g PASS



BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM

JAN 07, 2020



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.48 Aw	PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY

JAN 07, 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	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

