

# CERTIFICATE OF ANALYSIS

PRODUCED: OCT 04, 2019

2019-09-07\_PINEAPPLE OG\_DRYB1\_FL (FLOWER) // CLIENT: WALNUT LLC

BATCH RESULT: **PASS**

BATCH NO.: 1A4060300001965000001505

MATRIX: FLOWER

CATEGORY: INHALABLE

SAMPLE ID: BCL-191001-025

COLLECTED ON: OCT 01, 2019

RECEIVED ON: OCT 01, 2019

BATCH SIZE: 6241 GRAMS

SAMPLE SIZE: 22 GRAMS

THCA

33.19 %

CBGA

1.16 %

TOTAL CANNABINOIDS

36.17 %



MOISTURE

MICROBIAL  
PASSMYCOTOXINS  
PASSPESTICIDES  
PASS

TERPENOIDs



CANNABINOIDS

HEAVY METALS  
PASSWATER ACTIVITY  
PASSFOREIGN  
MATERIALS  
PASS

## CULTIVATOR

WALNUT LLC  
3030 WALNUT STE 160  
LONG BEACH, CA 90807LICENSE  
PML19-0000600TYPE  
MEDICINAL - CULTIVATOR LICENSE

## DISTRIBUTOR

WALNUT LLC  
3030 WALNUT STE 160  
LONG BEACH, CA 90807LICENSE  
C11-0001016-LICTYPE  
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

OCT 04, 2019



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

OCT 04, 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		0.61134 %	6.1134 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		0.09129 %	0.9129 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		0.12851 %	1.2851 mg/g	0.025 mg/g	0.1 mg/g	N/A
CBGA		1.16026 %	11.6026 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		0.80211 %	8.0211 mg/g	0.025 mg/g	0.1 mg/g	N/A
THCA		33.19093 %	331.9093 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		0.18877 %	1.8877 mg/g	0.025 mg/g	0.1 mg/g	N/A
<b>TOTAL THC</b> (TOTAL THC = (THCA X 0.877) + THC)		29.91056 %	299.1056 mg/g			N/A
<b>TOTAL CBD</b> (TOTAL CBD = (CBDA X 0.877) + CBD)		0.08006 %	0.8006 mg/g			N/A



BCL-09: TERPENOID TESTING BY HS-GC/FID  
OCT 04, 2019

ANALYTE	LABELED AMOUNT	DETECTED	DETECTED	PASS/FAIL
TOTAL TERPENES		3.32383 %	33.2383 mg/g	N/A
D-LIMONENE		1.20001 %	12.0001 mg/g	N/A
$\beta$ -PINENE		0.66476 %	6.6476 mg/g	N/A
$\beta$ -CARYOPHYLLENE		0.44895 %	4.4895 mg/g	N/A
LINALOOL		0.44342 %	4.4342 mg/g	N/A
$\beta$ -MYRCENE		0.19998 %	1.9998 mg/g	N/A
$\alpha$ -HUMULENE		0.12215 %	1.2215 mg/g	N/A
$\alpha$ -PINENE		0.11838 %	1.1838 mg/g	N/A
TERPINOLENE		0.08653 %	0.8653 mg/g	N/A
TRANS-NEROLIDOL		0.03965 %	0.3965 mg/g	N/A
$\alpha$ -BISABOLOL		ND	ND	N/A
$\alpha$ -OCIMENE		ND	ND	N/A
CAMPHENE		ND	ND	N/A
$\alpha$ -TERPINENE		ND	ND	N/A
ISOPULEGOL		ND	ND	N/A
GUAJOL		ND	ND	N/A
$\beta$ -OCIMENE		ND	ND	N/A
GERANIOL		ND	ND	N/A



CIS-NEROLIDOL	ND	ND	N/A
$\Delta^3$ -CARENE	ND	ND	N/A
$\gamma$ -TERPINENE	ND	ND	N/A
P-CYMENE	ND	ND	N/A
1,8-CINEOLE	ND	ND	N/A

## BCL-02: MOISTURE CONTENT BY GRAVIMETRY

OCT 01, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
MOISTURE		6.8 %	N/A

## BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR

OCT 03, 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 03, 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 03, 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 µg/g	0.05 µg/g	PASS
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## BCL-13: PESTICIDE TESTING BY GC/MS

OCT 04, 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

OCT 03, 2019

ANALYTE ACTION LIMIT DETECTED LOD LOQ PASS/FAIL

ARSENIC 0.2 µg/g &lt; LOQ 0.004 µg/g 0.011 µg/g PASS

CADMIUM 0.2 µg/g 0.018 µg/g 0.004 µg/g 0.011 µg/g PASS

LEAD 0.5 µg/g 0.025 µg/g 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 01, 2019



ANALYTE	ACTION LIMIT	DETECTED	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.54 Aw	PASS

## BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY

OCT 01, 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

