

## CERTIFICATE OF ANALYSIS

PRODUCED: APR 28, 2020

SAMPLE: 2020\_04\_20\_LEM\_PR (PRE-ROLL) // CLIENT: WALNUT LLC // BATCH: PASS



BATCH NO.: 2020\_04\_20\_LEM\_PR  
 MATRIX: PRE-ROLL  
 CATEGORY: INHALABLE  
 SAMPLE ID: BCL-200423-012  
 COLLECTED ON: APR 23, 2020  
 RECEIVED ON: APR 23, 2020  
 BATCH SIZE: 3370 UNITS  
 SAMPLE SIZE: 20 UNITS  
 PACKAGE SIZE: 1 G

## CANNABINOID OVERVIEW

TOTAL THC:	23.2025 %
TOTAL CBD:	0.0445 %
TOTAL CANNABINOIDS:	29.23259 %

## CULTIVATOR INFO

**CULTIVATOR**  
 WALNUT LLC  
 3030 WALNUT STE 160  
 LONG BEACH, CA 90807

**LICENSE**  
 CCL19-0000600  
 MEDICINAL - CULTIVATOR LICENSE

## DISTRIBUTOR INFO

**DISTRIBUTOR**  
 WALNUT LLC  
 3030 WALNUT STE 160  
 LONG BEACH, CA 90807

**LICENSE**  
 C11-0001016-LIC  
 ADULT-USE AND MEDICINAL -  
 DISTRIBUTOR LICENSE



## BCL-03: CANNABINOID POTENCY BY HPLC-UV // APR 25, 2020

ANALYTE	AMOUNT	AMOUNT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	0.06176 %	0.6176 mg/g	0.025/0.1	N/A
CBCA	0.29528 %	2.9528 mg/g	0.025/0.1	N/A
CBD	ND	ND	0.025/0.1	N/A
CBDA	0.05073 %	0.5073 mg/g	0.025/0.1	N/A
CBDV	ND	ND	0.025/0.1	N/A
CBDVA	ND	ND	0.025/0.1	N/A
CBG	0.38169 %	3.8169 mg/g	0.025/0.1	N/A
CBGA	2.42305 %	24.2305 mg/g	0.025/0.1	N/A
CBN	ND	ND	0.025/0.1	N/A
Δ <sup>8</sup> -THC	ND	ND	0.025/0.1	N/A
Δ <sup>9</sup> -THC	4.4377 %	44.377 mg/g	0.025/0.1	N/A
THCA	21.39659 %	213.9659 mg/g	0.025/0.1	N/A
THCV	ND	ND	0.025/0.1	N/A
THCVA	0.18579 %	1.8579 mg/g	0.025/0.1	N/A
TOTAL THC **	23.2025 %	232.025 mg/g		N/A
TOTAL CBD **	0.0445 %	0.445 mg/g		N/A
CBD/PKG	ND			N/A
Δ <sup>9</sup> -THC/PKG	44.38 mg			PASS
TOTAL CBD/PKG **	0.45 mg			N/A
TOTAL THC/PKG **	232.03 mg			N/A

\*\* TOTAL THC = (THCA X 0.877) + THC  
 \*\* TOTAL CBD = (CBDA X 0.877) + CBD  
 DRY-WEIGHT AMOUNTS SHOWN

## BCL-09: TERPENOID TESTING BY HS-GC-MS // APR 28, 2020

ANALYTE	AMOUNT	AMOUNT	PASS/FAIL
TOTAL TERPENES	1.07529 %	10.7529 mg/g	N/A
GUAIOL	ND	ND	N/A
CAMPHERE	ND	ND	N/A
GERANIOL	ND	ND	N/A
LINALOOL	0.11975 %	1.1975 mg/g	N/A
P-CYMENTHENE	ND	ND	N/A
EUCALYPTOL	ND	ND	N/A
ISOPULEGOL	0.02413 %	0.2413 mg/g	N/A
D-LIMONENE	0.04748 %	0.4748 mg/g	N/A
TERPINOLENE	0.24869 %	2.4869 mg/g	N/A
β-PINENE	0.01527 %	0.1527 mg/g	N/A
α-PINENE	ND	ND	N/A
β-MYRCENE	0.04105 %	0.4105 mg/g	N/A
β-OCIMENE	0.03806 %	0.3806 mg/g	N/A
CIS-NEROLIDOL	ND	ND	N/A
Δ <sup>3</sup> -CARENE	ND	ND	N/A
α-HUMULENE	0.06067 %	0.6067 mg/g	N/A
α-BISABOLOL	0.04197 %	0.4197 mg/g	N/A
α-TERPINENE	ND	ND	N/A
γ-TERPINENE	ND	ND	N/A
TRANS-NEROLIDOL	0.05641 %	0.5641 mg/g	N/A
β-CARYOPHYLLENE	0.30933 %	3.0933 mg/g	N/A
CARYOPHYLLENE OXIDE	0.07248 %	0.7248 mg/g	N/A



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  
 APR 28, 2020



## BCL-13: PESTICIDE TESTING BY GC/MS // APR 25, 2020

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CAPTAN	0.7 µg/g	ND	0.03/0.05	PASS
CHLORDANE	Any amount	ND	0.03/0.05	PASS
CHLORFENAPYR	Any amount	ND	0.03/0.05	PASS
CHLORPYRIFOS	Any amount	ND	0.03/0.05	PASS

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
DICHLORVOS	Any amount	ND	0.03/0.05	PASS
METHYL PARATHION	Any amount	ND	0.03/0.05	PASS
PENTACHLORONI-TROBENZENE	0.1 µg/g	ND	0.03/0.05	PASS

## BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // APR 25, 2020

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ABAMECTIN	0.1 µg/g	ND	0.03/0.05	PASS
ACEPHATE	0.1 µg/g	ND	0.03/0.05	PASS
ACEQUINOCYL	0.1 µg/g	ND	0.03/0.05	PASS
ACETAMIPRID	0.1 µg/g	ND	0.03/0.05	PASS
ALDICARB	Any amount	ND	0.03/0.05	PASS
AZOXYSTROBIN	0.1 µg/g	ND	0.03/0.05	PASS
BIFENAZATE	0.1 µg/g	ND	0.03/0.05	PASS
BIFENTHRIN	3 µg/g	ND	0.03/0.05	PASS
BOSCALID	0.1 µg/g	ND	0.03/0.05	PASS
CARBARYL	0.5 µg/g	ND	0.03/0.05	PASS
CARBOFURAN	Any amount	ND	0.03/0.05	PASS
CHLORANTRANIL-IPROLE	10 µg/g	ND	0.03/0.05	PASS
CLOFENTEZINE	0.1 µg/g	ND	0.03/0.05	PASS
COUMAPHOS	Any amount	ND	0.03/0.05	PASS
CYFLUTHRIN	2 µg/g	ND	0.03/0.05	PASS
CYPERMETHRIN	1 µg/g	ND	0.03/0.05	PASS
DAMINOZIDE	Any amount	ND	0.03/0.05	PASS
DIAZINON	0.1 µg/g	ND	0.03/0.05	PASS
DIMETHOATE	Any amount	ND	0.03/0.05	PASS
DIMETHOMORPH	2 µg/g	ND	0.03/0.05	PASS
ETHOPROPHOS	Any amount	ND	0.03/0.05	PASS
ETOXAZOLE	0.1 µg/g	ND	0.03/0.05	PASS
FENHEXAMID	0.1 µg/g	ND	0.03/0.05	PASS
FENOXYCARB	Any amount	ND	0.03/0.05	PASS
FENPYROXIMATE	0.1 µg/g	ND	0.03/0.05	PASS
FIPRONIL	Any amount	ND	0.03/0.05	PASS
FLONICAMID	0.1 µg/g	ND	0.03/0.05	PASS
FLUDIOXONIL	0.1 µg/g	ND	0.03/0.05	PASS
HEXYTHIAZOX	0.1 µg/g	ND	0.03/0.05	PASS

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
IMAZALIL	Any amount	ND	0.03/0.05	PASS
IMIDACLOPRID	5 µg/g	ND	0.03/0.05	PASS
KRESOXIM-METHYL	0.1 µg/g	ND	0.03/0.05	PASS
MALATHION	0.5 µg/g	ND	0.03/0.05	PASS
METALAXYL	2 µg/g	ND	0.03/0.05	PASS
METHIOCARB	Any amount	ND	0.03/0.05	PASS
METHOMYL	1 µg/g	ND	0.03/0.05	PASS
MEVINPHOS	Any amount	ND	0.03/0.05	PASS
MYCLOBUTANIL	0.1 µg/g	ND	0.03/0.05	PASS
NALED	0.1 µg/g	ND	0.03/0.05	PASS
OXAMYL	0.5 µg/g	ND	0.03/0.05	PASS
PACLOBUTRAZOL	Any amount	ND	0.03/0.05	PASS
PERMETHRIN	0.5 µg/g	ND	0.03/0.05	PASS
PHOSMET	0.1 µg/g	ND	0.03/0.05	PASS
PIPERONYLBUTOXIDE	3 µg/g	ND	0.03/0.05	PASS
PRALLETHRIN	0.1 µg/g	ND	0.03/0.05	PASS
PROPICONAZOLE	0.1 µg/g	ND	0.03/0.05	PASS
PROPOXUR	Any amount	ND	0.03/0.05	PASS
PYRETHRINS	0.5 µg/g	ND	0.03/0.05	PASS
PYRIDABEN	0.1 µg/g	ND	0.03/0.05	PASS
SPINETORAM	0.1 µg/g	ND	0.03/0.05	PASS
SPINOSAD	0.1 µg/g	ND	0.03/0.05	PASS
SPIROMESIFEN	0.1 µg/g	ND	0.03/0.05	PASS
SPIROTETRAMAT	0.1 µg/g	ND	0.03/0.05	PASS
SPIROXAMINE	Any amount	ND	0.03/0.05	PASS
TEBUCONAZOLE	0.1 µg/g	ND	0.03/0.05	PASS
THIACLOPRID	Any amount	ND	0.03/0.05	PASS
THIAMETHOXAM	5 µg/g	ND	0.03/0.05	PASS
TRIFLOXYSTROBIN	0.1 µg/g	ND	0.03/0.05	PASS



## BCL-18: RESIDUAL SOLVENTS ANALYSIS BY HS-GC-MS // APR 24, 2020

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	1 µg/g	ND	0.1/0.47	PASS
ACETONE	5000 µg/g	463.318	0.0094/30	PASS
ACETONITRILE	410 µg/g	ND	0.1/30	PASS
BENZENE	1 µg/g	ND	0.12/0.46	PASS
BUTANE	5000 µg/g	< LOQ	0.0075/41	PASS
CHLOROFORM	1 µg/g	ND	0.058/0.48	PASS
ETHANOL	5000 µg/g	< LOQ	0.3/26	PASS
ETHYL ACETATE	5000 µg/g	< LOQ	0.01/30	PASS
ETHYLENE OXIDE	1 µg/g	ND	0.021/0.42	PASS
ETHYL ETHER	5000 µg/g	ND	0.0087/33	PASS
HEPTANE	5000 µg/g	< LOQ	0.0047/31	PASS
HEXANE	290 µg/g	< LOQ	0.0042/34	PASS
ISOPROPYL ALCOHOL	5000 µg/g	< LOQ	0.08/31	PASS
METHANOL	3000 µg/g	ND	1.7/27	PASS
METHYLENE CHLORIDE	1 µg/g	ND	0.026/0.39	PASS
PENTANE	5000 µg/g	< LOQ	0.0033/32	PASS
PROPANE	5000 µg/g	ND	0.09/47.4	PASS
TOLUENE	890 µg/g	< LOQ	0.016/32	PASS
TRICHLOROETHYLENE	1 µg/g	ND	0.05/0.45	PASS
O-XYLENE		ND	0.032/22	N/A
P- AND M-XYLENE		ND	0.032/22	N/A
TOTAL XYLENES	2170 µg/g	ND	0.064/45	PASS

## BCL-020: HEAVY METAL TESTING BY ICP-MS // APR 26, 2020

ANALYTE	LIMIT	AMOUNT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ARSENIC	0.2 µg/g	< LOQ	0.001/0.05	PASS
CADMIUM	0.2 µg/g	< LOQ	0.0002/0.05	PASS
LEAD	0.5 µg/g	0.094	0.0003/0.05	PASS
MERCURY	0.1 µg/g	< LOQ	0.0001/0.01	PASS

## BCL-02: MOISTURE CONTENT BY GRAVIMETRY // APR 23, 2020

ANALYTE	LIMIT	AMOUNT (%)	PASS/FAIL
MOISTURE		9.7	N/A

## BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // APR 23, 2020

ANALYTE	LIMIT	AMOUNT (%)	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

## BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR // APR 26, 2020

ANALYTE	LIMIT	AMOUNT (CFU)	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 // APR 25, 2020

ANALYTE	LIMIT	AMOUNT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN B1		ND	1.476/4.472	N/A
AFLATOXIN B2		ND	1.683/5.101	N/A
AFLATOXIN G1		ND	1.559/4.723	N/A
AFLATOXIN G2		ND	1.585/4.804	N/A
AFLATOXINS	20 µg/kg	ND	6.303/19.1	PASS
OCHRATOXIN A	20 µg/kg	ND	3.312/10.037	PASS

## BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM // APR 23, 2020

ANALYTE	LIMIT	AMOUNT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.62	PASS

