

CERTIFICATE OF ANALYSIS

PRODUCED: APR 24, 2020

SAMPLE: 2020_04_14_ORCH_PR (PRE-ROLL) // CLIENT: WALNUT LLC // BATCH: PASS



BATCH NO.: 2020_04_14_ORCH_PR
MATRIX: PRE-ROLL
CATEGORY: INHALABLE
SAMPLE ID: BCL-200421-002
COLLECTED ON: APR 21, 2020
RECEIVED ON: APR 21, 2020
BATCH SIZE: 2152 UNITS
SAMPLE SIZE: 13 UNITS
PACKAGE SIZE: 1 G

CANNABINOID OVERVIEW

TOTAL THC:	18.65713 %
TOTAL CBD:	0.03244 %
TOTAL CANNABINOIDS:	22.22982 %

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 22, 2020

ANALYTE	AMOUNT	AMOUNT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	0.06354 %	0.6354 mg/g	0.025/0.1	N/A
CBCA	0.3989 %	3.989 mg/g	0.025/0.1	N/A
CBD	ND	ND	0.025/0.1	N/A
CBDA	0.03699 %	0.3699 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	0.06782 %	0.6782 mg/g	0.025/0.1	N/A
CBGA	0.65633 %	6.5633 mg/g	0.025/0.1	N/A
CBN	ND	ND	0.025/0.1	N/A
Δ ⁸ -THC	ND	ND	0.025/0.1	N/A
Δ ⁹ -THC	2.48646 %	24.8646 mg/g	0.025/0.1	N/A
THCA	18.43862 %	184.3862 mg/g	0.025/0.1	N/A
THCV	ND	ND	0.025/0.1	N/A
THCVA	0.08116 %	0.8116 mg/g	0.025/0.1	N/A
TOTAL THC **	18.65713 %	186.5713 mg/g		N/A
TOTAL CBD **	0.03244 %	0.3244 mg/g		N/A
CBD/PKG	ND			N/A
Δ ⁹ -THC/PKG	24.86 mg			PASS
TOTAL CBD/PKG **	0.32 mg			N/A
TOTAL THC/PKG **	186.57 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/FID // APR 23, 2020

ANALYTE	AMOUNT	AMOUNT	PASS/FAIL
TOTAL TERPENES	0.99694 %	9.9694 mg/g	N/A
β-CARYOPHYLLENE	0.39429 %	3.9429 mg/g	N/A
D-LIMONENE	0.13627 %	1.3627 mg/g	N/A
LINALOOL	0.12854 %	1.2854 mg/g	N/A
α-HUMULENE	0.12748 %	1.2748 mg/g	N/A
α-BISABOLOL	0.12398 %	1.2398 mg/g	N/A
CARYOPHYLLENE OXIDE	0.08638 %	0.8638 mg/g	N/A
TERPINOLENE	ND	ND	N/A
P-CYMENTHENE	ND	ND	N/A
ISOPULEGOL	ND	ND	N/A
GUAIOL	ND	ND	N/A
γ-TERPINENE	ND	ND	N/A
EUCALYPTOL	ND	ND	N/A
CIS-NEROLIDOL	ND	ND	N/A
Δ ³ -CARENE	ND	ND	N/A
CAMPHERE	ND	ND	N/A
β-PINENE	ND	ND	N/A
β-OCIMENE	ND	ND	N/A
β-MYRCENE	ND	ND	N/A
α-TERPINENE	ND	ND	N/A
α-PINENE	ND	ND	N/A
α-OCIMENE	ND	ND	N/A
TRANS-NEROLIDOL	ND	ND	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 24, 2020




BCL-13: PESTICIDE TESTING BY GC/MS // APR 22, 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 22, 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 22, 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	ND	0.0094/30	PASS
ACETONITRILE	410 µg/g	< LOQ	0.1/30	PASS
BENZENE	1 µg/g	ND	0.12/0.46	PASS
BUTANE	5000 µg/g	ND	0.0075/41	PASS
CHLOROFORM	1 µg/g	ND	0.058/0.48	PASS
ETHANOL	5000 µg/g	ND	0.3/26	PASS
ETHYL ACETATE	5000 µg/g	ND	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	ND	0.0047/31	PASS
HEXANE	290 µg/g	ND	0.0042/34	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	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	ND	0.0033/32	PASS
PROPANE	5000 µg/g	ND	0.09/47.4	PASS
TOLUENE	890 µg/g	ND	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 22, 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	0.111	0.0003/0.05	PASS
MERCURY	0.1 µg/g	< LOQ	0.0001/0.01	PASS

BCL-02: MOISTURE CONTENT BY GRAVIMETRY // APR 21, 2020

ANALYTE	LIMIT	AMOUNT (%)	PASS/FAIL
MOISTURE		10.7	N/A

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // APR 21, 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 23, 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 22, 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 24, 2020

ANALYTE	LIMIT	AMOUNT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.64	PASS

