

CERTIFICATE OF ANALYSIS

PRODUCED: APR 22, 2022

SAMPLE: MAC 1 (PRE-ROLL) // CLIENT: ALKHEMIST DM LLC // BATCH: PASS
NON-INFUSED PRE-ROLL



BATCH NO.: GHFMAC0401PR
METRC UID: 1A406030003DC49000000612
MATRIX: PRE-ROLL
CATEGORY: INHALABLE
SAMPLE ID: BCL-220419-146
COLLECTED ON: APR 19, 2022
RECEIVED ON: APR 19, 2022
BATCH/SAMPLE SIZE: 1331 UNITS / 13 UNITS
PACKAGE SIZE: 1 G

CANNABINOID OVERVIEW

TOTAL THC:	26.87332 %
TOTAL CBD:	0.21687 %
SUM OF CANNABINOIDS:	33.48989 %

CULTIVATOR INFO

CULTIVATOR
MISSION HEALTH ASSOCIATES, INC.
DBA GLASS HOUSE FARMS
2211 DAMON STREET
LOS ANGELES, CA 9002

LICENSE
CCL18-0003034
ADULT-USE - CULTIVATOR LICENSE

DISTRIBUTOR INFO

DISTRIBUTOR
ALKHEMIST DM LLC
2211 DAMON STREET
LOS ANGELES, CA 9002

LICENSE
C11-0001456-LIC
ADULT-USE - DISTRIBUTOR LICENSE



BCL-03: CANNABINOID POTENCY BY HPLC-UV // APR 21, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	ND	ND	0.00951/0.21604	N/A
CBCA	0.75257 %	7.5257 mg/g	0.02722/0.21604	N/A
CBD	ND	ND	0.01339/0.21604	N/A
CBDA	0.24729 %	2.4729 mg/g	0.00691/0.21604	N/A
CBDV	ND	ND	0.01037/0.21604	N/A
CBDVA	ND	ND	0.00691/0.21604	N/A
CBG	0.06742 %	0.6742 mg/g	0.01253/0.21604	N/A
CBGA	1.73690 %	17.3690 mg/g	0.00864/0.21604	N/A
CBN	ND	ND	0.00691/0.21604	N/A
Δ ⁸ -THC	ND	ND	0.02506/0.21604	N/A
Δ ⁹ -THC	1.06348 %	10.6348 mg/g	0.01815/0.21604	N/A
THCA	29.42969 %	294.2969 mg/g	0.01296/0.21604	N/A
THCV	ND	ND	0.01426/0.21604	N/A
THCVA	0.19254 %	1.9254 mg/g	0.00994/0.21604	N/A
TOT THC**	26.87332 %	268.7332 mg/g		N/A
TOT CBD**	0.21687 %	2.1687 mg/g		N/A
CBD/PKG	ND			N/A
Δ ⁹ -THC/PKG	10.63 mg			N/A
TOT CBD/PKG**	2.17 mg			N/A
TOT THC/PKG**	268.73 mg			N/A

BCL-09: TERPENOID TESTING BY HS-GC/FID // APR 21, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
TOTAL TERPENES	0.75312 %	7.5312 mg/g		N/A
D-LIMONENE	0.24532 %	2.4532 mg/g	0.00025/0.13955	N/A
β-CARYOPHYLLENE	0.15394 %	1.5394 mg/g	0.00191/0.13955	N/A
LINALOOL	0.09506 %	0.9506 mg/g	0.00037/0.13955	N/A
α-BISABOLOL	0.08718 %	0.8718 mg/g	0.00435/0.13955	N/A
α-HUMULENE	0.06225 %	0.6225 mg/g	0.00047/0.13955	N/A
β-PINENE	0.04570 %	0.4570 mg/g	0.00226/0.13955	N/A
α-PINENE	0.03868 %	0.3868 mg/g	0.00022/0.13955	N/A
β-MYRCENE	0.02499 %	0.2499 mg/g	0.00038/0.13955	N/A
β-OCIMENE	< LOQ	< LOQ	0.0005/0.09629	N/A
CAMPHENE	< LOQ	< LOQ	0.00022/0.13955	N/A
α-TERPINENE	ND	ND	0.0003/0.13955	N/A
Δ ³ -CARENE	ND	ND	0.00046/0.13955	N/A
EUCALYPTOL	ND	ND	0.00047/0.13955	N/A
γ-TERPINENE	ND	ND	0.00047/0.13955	N/A
GERANIOL	ND	ND	0.00029/0.13955	N/A
GUAIOL	ND	ND	0.00273/0.13955	N/A
ISOPULEGOL	ND	ND	0.00054/0.13955	N/A
α-OCIMENE	ND	ND	0.00135/0.04326	N/A
P-CYMELE	ND	ND	0.00027/0.13955	N/A
TERPINOLENE	ND	ND	0.0003/0.13955	N/A

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



SAMPLE WAS TESTED AS RECEIVED. ALL LQC SAMPLES REQUIRED BY SECTION 15730 OF CALIFORNIA CODE OF REGULATIONS TITLE 4 DIVISION 19 DEPARTMENT OF CANNABIS CONTROL WERE PERFORMED AND MET THE ACCEPTANCE CRITERIA.

RESULTS CERTIFIED BY: CODY SHEPPARD, PH.D.
SCIENCE DIRECTOR, BELCOSTA LABS
APR 22, 2022

REGULATORY COMPLIANCE TESTING

BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // APR 21, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ABAMECTIN	0.1 µg/g	ND	0.01153/0.04	PASS	METALAXYL	2 µg/g	ND	0.00503/0.02	PASS
ACEPHATE	0.1 µg/g	ND	0.00368/0.02	PASS	METHIOCARB	Any amt	ND	0.00503/0.02	PASS
ACEQUINOCYL	0.1 µg/g	ND	0.00417/0.02	PASS	METHOMYL	1 µg/g	ND	0.00494/0.02	PASS
ACETAMIPRID	0.1 µg/g	ND	0.00464/0.02	PASS	MEVINPHOS	Any amt	ND		PASS
ALDICARB	Any amt	ND	0.01109/0.04	PASS	MEVINPHOS I		ND	0.00163/0.0084	N/A
AZOXYSTROBIN	0.1 µg/g	ND	0.00639/0.02	PASS	MEVINPHOS II		ND	0.00542/0.0316	N/A
BIFENAZATE	0.1 µg/g	ND	0.00355/0.02	PASS	MYCLOBUTANIL	0.1 µg/g	ND	0.00867/0.04	PASS
BIFENTHRIN	3 µg/g	ND	0.00473/0.04	PASS	NALED	0.1 µg/g	ND	0.00328/0.02	PASS
BOSCALID	0.1 µg/g	ND	0.00494/0.02	PASS	OXAMYL	0.5 µg/g	ND	0.00455/0.02	PASS
CARBARYL	0.5 µg/g	ND	0.00295/0.02	PASS	PACLOBUTRAZOL	Any amt	ND	0.00714/0.04	PASS
CARBOFURAN	Any amt	ND	0.00613/0.02	PASS	PERMETHRIN	0.5 µg/g	ND		PASS
CHLORANTRANIL-IPROLE	10 µg/g	ND	0.00697/0.04	PASS	PERMETHRIN CIS		ND	0.00237/0.0082	N/A
CLOFENTEZINE	0.1 µg/g	ND	0.0054/0.02	PASS	PERMETHRIN TRANS		ND	0.00245/0.0118	N/A
COUMAPHOS	Any amt	ND	0.00215/0.02	PASS	PHOSMET	0.1 µg/g	ND	0.0043/0.02	PASS
CYFLUTHRIN	2 µg/g	ND	0.05508/0.2	PASS	PIPERONYLBUTOXIDE	3 µg/g	ND	0.00247/0.02	PASS
CYPERMETHRIN	1 µg/g	ND	0.00556/0.04	PASS	PRALLETHRIN	0.1 µg/g	ND	0.00392/0.02	PASS
DAMINOZIDE	Any amt	ND	0.00227/0.04	PASS	PROPICONAZOLE	0.1 µg/g	ND	0.0024/0.02	PASS
DIAZINON	0.1 µg/g	ND	0.00487/0.02	PASS	PROPOXUR	Any amt	ND	0.00374/0.02	PASS
DIMETHOATE	Any amt	ND	0.00354/0.02	PASS	PYRETHRINS	0.5 µg/g	ND		PASS
DIMETHOMORPH	2 µg/g	ND		PASS	PYRETHRINS PYRETHRIN I		ND	0.00726/0.04	N/A
DIMETHOMORPH I		ND	0.00109/0.0078	N/A	PYRETHRINS PYRETHRIN II		ND	0.00754/0.02284	N/A
DIMETHOMORPH II		ND	0.0015/0.0122	N/A	PYRIDABEN	0.1 µg/g	ND	0.0034/0.02	PASS
ETHOPROPHOS	Any amt	ND	0.0041/0.02	PASS	SPINETORAM	0.1 µg/g	ND		PASS
ETOFENPROX	Any amt	ND	0.00274/0.02	PASS	SPINETORAM J		ND	0.00329/0.016	N/A
ETOXAZOLE	0.1 µg/g	ND	0.00385/0.02	PASS	SPINETORAM L		ND	0.00157/0.016	N/A
FENHEXAMID	0.1 µg/g	ND	0.01055/0.02	PASS	SPINOSAD	0.1 µg/g	ND		PASS
FENOXYCARB	Any amt	ND	0.00175/0.02	PASS	SPINOSAD A		ND	0.00205/0.01438	N/A
FENPYROXIMATE	0.1 µg/g	ND	0.00481/0.02	PASS	SPINOSAD D		ND	0.00104/0.00498	N/A
FIPRONIL	Any amt	ND	0.00478/0.02	PASS	SPIROMESIFEN	0.1 µg/g	ND	0.00944/0.04	PASS
FLONICAMID	0.1 µg/g	ND	0.00398/0.02	PASS	SPIROTETRAMAT	0.1 µg/g	ND	0.00208/0.02	PASS
FLUDIOXONIL	0.1 µg/g	ND	0.01369/0.04	PASS	SPIROXAMINE	Any amt	ND	0.00344/0.02	PASS
HEXYTHIAZOX	0.1 µg/g	ND	0.00297/0.02	PASS	TEBUCONAZOLE	0.1 µg/g	ND	0.00816/0.04	PASS
IMAZALIL	Any amt	ND	0.0056/0.02	PASS	THIACLOPRID	Any amt	ND	0.0039/0.02	PASS
IMIDACLOPRID	5 µg/g	ND	0.00645/0.02	PASS	THIAMETHOXAM	5 µg/g	ND	0.00358/0.02	PASS
KRESOXIM-METHYL	0.1 µg/g	ND	0.00339/0.02	PASS	TRIFLOXYSTROBIN	0.1 µg/g	ND	0.00421/0.02	PASS
MALATHION	0.5 µg/g	ND	0.00472/0.02	PASS					

BCL-13: PESTICIDE TESTING BY GC/MS // APR 21, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CAPTAN	0.7 µg/g	ND	0.03148/0.09535	PASS	CHLORPYRIFOS	Any amt	ND	0.01119/0.034	PASS
CHLORDANE	Any amt	ND		PASS	DICHLORVOS	Any amt	ND	0.01179/0.03573	PASS
CHLORDANE CIS		ND	0.01113/0.03376	N/A	METHYL PARATHION	Any amt	ND	0.01353/0.041	PASS
CHLORDANE TRANS		ND	0.01065/0.0322	N/A					



REGULATORY COMPLIANCE TESTING

CHLORFENAPYR Any amt ND 0.024/0.07267 PASS

PENTACHLORONI-TROBENZENE 0.1 µg/g ND 0.01407/0.04268 PASS

BCL-18: RESIDUAL SOLVENTS ANALYSIS BY HS-GC-MS // APR 21, 2022

ANALYTE	LIMIT AMT (µg/g)	AMT	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	1 µg/g	ND	0.16803/0.58617	PASS
ACETONE	5000 µg/g	ND	18.91364/58.61665	PASS
ACETONITRILE	410 µg/g	ND	16.7839/58.61665	PASS
BENZENE	1 µg/g	ND	0.07425/0.58617	PASS
BUTANE	5000 µg/g	ND	17.69832/58.61665	PASS
CHLOROFORM	1 µg/g	ND	0.17194/0.58617	PASS
ETHANOL	5000 µg/g	ND	14.50957/58.61665	PASS
ETHYL ACETATE	5000 µg/g	ND	17.91716/58.61665	PASS
ETHYLENE OXIDE	1 µg/g	ND	0.18757/0.58617	PASS
ETHYL ETHER	5000 µg/g	ND	15.78351/58.61665	PASS
HEPTANE	5000 µg/g	ND	13.81008/58.61665	PASS
HEXANE	290 µg/g	ND	21.26221/97.69441	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	14.65416/58.61665	PASS
METHANOL	3000 µg/g	< LOQ	13.14185/58.61665	PASS
METHYLENE CHLORIDE	1 µg/g	ND	0.1485/0.58617	PASS
PENTANE	5000 µg/g	ND	32.31731/97.69441	PASS
PROPANE	5000 µg/g	ND	16.69793/58.61665	PASS
TOLUENE	890 µg/g	ND	9.22626/58.61665	PASS
TRICHLOROETHYLENE	1 µg/g	ND	0.07816/0.58617	PASS
O-XYLENE		ND	4.36889/29.30832	N/A
P- AND M-XYLENE		ND	4.04846/29.30832	N/A
TOTAL XYLENES	2170 µg/g	ND		PASS

BCL-11: MYCOTOXIN TESTING BY LC-MS/MS // APR 21, 2022

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN B1		ND	0.23/4	N/A
AFLATOXIN B2		ND	0.181/4	N/A
AFLATOXIN G1		ND	0.155/4	N/A
AFLATOXIN G2		ND	0.934/4	N/A
AFLATOXINS	20 µg/kg	ND		PASS
OCHRATOXIN A	20 µg/kg	ND	0.385/4	PASS

BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM // APR 20, 2022

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.49	PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // APR 20, 2022

ANALYTE	LIMIT AMT (%)	AMT	PASS/FAIL
IMBEDDED FOREIGN MATERIAL	25 %	ND	PASS
INSECT FRAGMENTS, HAIR, MAMMAL EXCREMENT	1 Unit	ND	PASS
MOLD	25 %	ND	PASS
SAND, SOIL, CINDERS, DIRT	25 %	ND	PASS

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR // APR 21, 2022

ANALYTE	LIMIT	AMT (CFU)	PASS/FAIL
ASPERGILLUS FLAVUS	Any amt in 1 gram	ND	PASS
ASPERGILLUS FUMIGATUS	Any amt in 1 gram	ND	PASS
ASPERGILLUS NIGER	Any amt in 1 gram	ND	PASS
ASPERGILLUS TERREUS	Any amt in 1 gram	ND	PASS
ESCHERICHIA COLI	Any amt in 1 gram	ND	PASS
SALMONELLA SPP.	Any amt in 1 gram	ND	PASS

BCL-020: HEAVY METAL TESTING BY ICP-MS // APR 20, 2022

ANALYTE	LIMIT	AMT (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	< LOQ	0.0003/0.05	PASS
MERCURY	0.1 µg/g	< LOQ	0.0001/0.01	PASS

BCL-02: MOISTURE CONTENT BY GRAVIMETRY // APR 20, 2022

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE		9.00	N/A

