

CERTIFICATE OF ANALYSIS

PRODUCED: JUL 22, 2022

SAMPLE: GMO (PRE-ROLL) // CLIENT: ALKHEMIST DM LLC // BATCH: PASS



BATCH NO.: GHFGCK1010714MP
METRC UID: 1A406030003DC49000004622
MATRIX: PRE-ROLL
CATEGORY: INHALABLE
SAMPLE ID: BCL-220719-048
COLLECTED ON: JUL 19, 2022
RECEIVED ON: JUL 19, 2022
BATCH/SAMPLE SIZE: 1116 UNITS / 8 UNITS
PACKAGE SIZE: 2.5 G

CANNABINOID OVERVIEW

TOTAL THC:	29.79096 %
TOTAL CBD:	0.06595 %
SUM OF CANNABINOIDS:	35.37459 %

CULTIVATOR INFO

CULTIVATOR
 MISSION HEALTH ASSOCIATES, INC.
 DBA GLASS HOUSE FARMS
 5601 CASITAS PASS RD
 CARPINTERIA, CA 93013

LICENSE
 CCL18-0003034
 ADULT-USE - CULTIVATOR LICENSE

DISTRIBUTOR INFO

DISTRIBUTOR
 ALKHEMIST DM LLC
 2211 DAMON STREET
 LOS ANGELES, CA 90021

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

POTENCY	TERP	PEST PASS	MOIST	MICRO PASS
MYCO PASS	METALS PASS	WATER PASS	FOREIGN PASS	SOLVENT PASS

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

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	0.03729 %	0.3729 mg/g	0.01092/0.24821	N/A
CBCA	0.26997 %	2.6997 mg/g	0.03127/0.24821	N/A
CBD	ND	ND	0.01539/0.24821	N/A
CBDA	0.07520 %	0.7520 mg/g	0.00794/0.24821	N/A
CBDV	ND	ND	0.01191/0.24821	N/A
CBDVA	ND	ND	0.00794/0.24821	N/A
CBG	0.12407 %	1.2407 mg/g	0.0144/0.24821	N/A
CBGA	1.14738 %	11.4738 mg/g	0.00993/0.24821	N/A
CBN	< LOQ	< LOQ	0.00794/0.24821	N/A
Δ ⁸ -THC	ND	ND	0.02879/0.24821	N/A
Δ ⁹ -THC	2.85181 %	28.5181 mg/g	0.02085/0.24821	N/A
THCA	30.71739 %	307.1739 mg/g	0.01489/0.24821	N/A
THCV	ND	ND	0.01638/0.24821	N/A
THCVA	0.15148 %	1.5148 mg/g	0.01142/0.24821	N/A
TOT THC**	29.79096 %	297.9096 mg/g		N/A
TOT CBD**	0.06595 %	0.6595 mg/g		N/A
CBD/PKG	ND			N/A
Δ ⁹ -THC/PKG	71.30 mg			N/A
TOT CBD/PKG**	1.65 mg			N/A
TOT THC/PKG**	744.77 mg			N/A

BCL-09: TERPENOID TESTING BY HS-GC/FID // JUL 22, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
TOTAL TERPENES	1.02274 %	10.2274 mg/g		N/A
β-CARYOPHYLLENE	0.41419 %	4.1419 mg/g	0.00175/0.12785	N/A
D-LIMONENE	0.19345 %	1.9345 mg/g	0.00023/0.12785	N/A
β-MYRCENE	0.11187 %	1.1187 mg/g	0.00035/0.12785	N/A
α-HUMULENE	0.16550 %	1.6550 mg/g	0.00043/0.12785	N/A
α-BISABOLOL	0.05040 %	0.5040 mg/g	0.00399/0.12785	N/A
LINALOOL	0.04146 %	0.4146 mg/g	0.00034/0.12785	N/A
β-PINENE	0.02746 %	0.2746 mg/g	0.00207/0.12785	N/A
α-PINENE	0.01841 %	0.1841 mg/g	0.0002/0.12785	N/A
TERPINOLENE	< LOQ	< LOQ	0.00027/0.12785	N/A
CAMPHENE	< LOQ	< LOQ	0.0002/0.12785	N/A
GUAIOL	ND	ND	0.0025/0.12785	N/A
P-CYMENE	ND	ND	0.00025/0.12785	N/A
ISOPULEGOL	ND	ND	0.0005/0.12785	N/A
Δ ³ -CARENE	ND	ND	0.00042/0.12785	N/A
GERANIOL	ND	ND	0.00027/0.12785	N/A
γ-TERPINENE	ND	ND	0.00043/0.12785	N/A
EUCALYPTOL	ND	ND	0.00043/0.12785	N/A
CIS-β-OCIMENE	ND	ND	0.00123/0.03963	N/A
α-TERPINENE	ND	ND	0.00028/0.12785	N/A
TRANS-β-OCIMENE	ND	ND	0.00046/0.08822	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. ALL DECISION RULES ARE ESTABLISHED BY THE DCC.

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



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

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CAPTAN	0.7 µg/g	ND	0.03109/0.09417	PASS
CHLORDANE	Any amt	ND		PASS
CHLORDANE CIS		ND	0.011/0.03334	N/A
CHLORDANE TRANS		ND	0.01052/0.0318	N/A
CHLORFENAPYR	Any amt	ND	0.0237/0.07176	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CHLORPYRIFOS	Any amt	ND	0.01105/0.03358	PASS
DICHLORVOS	Any amt	ND	0.01165/0.03529	PASS
METHYL PARATHION	Any amt	ND	0.01336/0.04049	PASS
PENTACHLORONI-TROBENZENE	0.1 µg/g	ND	0.01389/0.04215	PASS

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

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
ABAMECTIN	0.1 µg/g	ND	0.01153/0.04	PASS
ACEPHATE	0.1 µg/g	ND	0.00368/0.02	PASS
ACEQUINOCYL	0.1 µg/g	ND	0.00417/0.02	PASS
ACETAMIPRID	0.1 µg/g	ND	0.00464/0.02	PASS
ALDICARB	Any amt	ND	0.01109/0.04	PASS
AZOXYSTROBIN	0.1 µg/g	ND	0.00639/0.02	PASS
BIFENAZATE	0.1 µg/g	ND	0.00355/0.02	PASS
BIFENTHRIN	3 µg/g	ND	0.00473/0.04	PASS
BOSCALID	0.1 µg/g	ND	0.00494/0.02	PASS
CARBARYL	0.5 µg/g	ND	0.00295/0.02	PASS
CARBOFURAN	Any amt	ND	0.00613/0.02	PASS
CHLORANTRANIL-IPROLE	10 µg/g	ND	0.00697/0.04	PASS
CLOFENTEZINE	0.1 µg/g	ND	0.0054/0.02	PASS
COUMAPHOS	Any amt	ND	0.00215/0.02	PASS
CYFLUTHRIN	2 µg/g	ND	0.05508/0.2	PASS
CYPERMETHRIN	1 µg/g	ND	0.00556/0.04	PASS
DAMINOZIDE	Any amt	ND	0.00227/0.04	PASS
DIAZINON	0.1 µg/g	ND	0.00487/0.02	PASS
DIMETHOATE	Any amt	ND	0.00354/0.02	PASS
DIMETHOMORPH	2 µg/g	ND		PASS
DIMETHOMORPH I		ND	0.00109/0.0078	N/A
DIMETHOMORPH II		ND	0.0015/0.0122	N/A
ETHOPROPHOS	Any amt	ND	0.0041/0.02	PASS
ETOFENPROX	Any amt	ND	0.00274/0.02	PASS
ETOXAZOLE	0.1 µg/g	ND	0.00385/0.02	PASS
FENHEXAMID	0.1 µg/g	ND	0.01055/0.02	PASS
FENOXYCARB	Any amt	ND	0.00175/0.02	PASS
FENPYROXIMATE	0.1 µg/g	ND	0.00481/0.02	PASS
FIPRONIL	Any amt	ND	0.00478/0.02	PASS
FLONICAMID	0.1 µg/g	ND	0.00398/0.02	PASS
FLUDIOXONIL	0.1 µg/g	ND	0.01369/0.04	PASS
HEXYTHIAZOX	0.1 µg/g	ND	0.00297/0.02	PASS
IMAZALIL	Any amt	ND	0.0056/0.02	PASS
IMIDACLOPRID	5 µg/g	ND	0.00645/0.02	PASS
KRESOXIM-METHYL	0.1 µg/g	ND	0.00339/0.02	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
METALAXYL	2 µg/g	ND	0.00503/0.02	PASS
METHIOCARB	Any amt	ND	0.00503/0.02	PASS
METHOMYL	1 µg/g	ND	0.00494/0.02	PASS
MEVINPHOS	Any amt	ND		PASS
MEVINPHOS I		ND	0.00163/0.0084	N/A
MEVINPHOS II		ND	0.00542/0.0316	N/A
MYCLOBUTANIL	0.1 µg/g	ND	0.00867/0.04	PASS
NALED	0.1 µg/g	ND	0.00328/0.02	PASS
OXAMYL	0.5 µg/g	ND	0.00455/0.02	PASS
PACLOBUTRAZOL	Any amt	ND	0.00714/0.04	PASS
PERMETHRIN	0.5 µg/g	ND		PASS
PERMETHRIN CIS		ND	0.00237/0.0082	N/A
PERMETHRIN TRANS		ND	0.00245/0.0118	N/A
PHOSMET	0.1 µg/g	ND	0.0043/0.02	PASS
PIPERONYLBUTO-XIDE	3 µg/g	ND	0.00247/0.02	PASS
PRALLETHRIN	0.1 µg/g	ND	0.00392/0.02	PASS
PROPICONAZOLE	0.1 µg/g	< LOQ	0.0024/0.02	PASS
PROPOXUR	Any amt	ND	0.00374/0.02	PASS
PYRETHRINS	0.5 µg/g	ND		PASS
PYRETHRINS PYRETHRIN I		ND	0.00726/0.04	N/A
PYRETHRINS PYRETHRIN II		ND	0.00754/0.02284	N/A
PYRIDABEN	0.1 µg/g	ND	0.0034/0.02	PASS
SPINETORAM	0.1 µg/g	ND		PASS
SPINETORAM J		ND	0.00329/0.016	N/A
SPINETORAM L		ND	0.00157/0.016	N/A
SPINOSAD	0.1 µg/g	ND		PASS
SPINOSAD A		ND	0.00205/0.01438	N/A
SPINOSAD D		ND	0.00104/0.00498	N/A
SPIROMESIFEN	0.1 µg/g	ND	0.00944/0.04	PASS
SPIROTETRAMAT	0.1 µg/g	ND	0.00208/0.02	PASS
SPIROXAMINE	Any amt	ND	0.00344/0.02	PASS
TEBUCONAZOLE	0.1 µg/g	ND	0.00816/0.04	PASS
THIACLOPRID	Any amt	ND	0.0039/0.02	PASS
THIAMETHOXAM	5 µg/g	ND	0.00358/0.02	PASS
TRIFLOXYSTROB-IN	0.1 µg/g	ND	0.00421/0.02	PASS



MALATHION 0.5 µg/g ND 0.00472/0.02 PASS

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

ANALYTE	LIMIT AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL	
1,2-DICHLOROETHANE	1 µg/g	ND	0.17173/0.59904	PASS
ACETONE	5000 µg/g	ND	19.32907/59.90415	PASS
ACETONITRILE	410 µg/g	ND	17.15256/59.90415	PASS
BENZENE	1 µg/g	ND	0.07588/0.59904	PASS
BUTANE	5000 µg/g	ND	18.08706/59.90415	PASS
CHLOROFORM	1 µg/g	ND	0.17572/0.59904	PASS
ETHANOL	5000 µg/g	ND	14.82827/59.90415	PASS
ETHYL ACETATE	5000 µg/g	ND	18.3107/59.90415	PASS
ETHYLENE OXIDE	1 µg/g	ND	0.19169/0.59904	PASS
ETHYL ETHER	5000 µg/g	ND	16.13019/59.90415	PASS
HEPTANE	5000 µg/g	ND	14.11342/59.90415	PASS
HEXANE	290 µg/g	ND	21.72923/99.84026	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	14.97604/59.90415	PASS
METHANOL	3000 µg/g	ND	13.43051/59.90415	PASS
METHYLENE CHLORIDE	1 µg/g	ND	0.15176/0.59904	PASS
PENTANE	5000 µg/g	ND	33.02716/99.84026	PASS
PROPANE	5000 µg/g	ND	17.0647/59.90415	PASS
TOLUENE	890 µg/g	ND	9.42891/59.90415	PASS
TRICHLOROETHYLENE	1 µg/g	ND	0.07987/0.59904	PASS
O-XYLENE		ND	4.46486/29.95208	N/A
P- AND M-XYLENE		ND	4.13738/29.95208	N/A
TOTAL XYLENES	2170 µg/g	ND		PASS

BCL-11: MYCOTOXIN TESTING BY LC-MS/MS // JUL 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 // JUL 20, 2022

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.56	PASS

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

ANALYTE	LIMIT 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 // JUL 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 // JUL 21, 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 // JUL 20, 2022

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE		8.70	N/A

