

CERTIFICATE OF ANALYSIS

PRODUCED: JUL 25, 2022

SAMPLE: MAC 1 (FLOWER) // CLIENT: ALKHEMIST DM LLC // BATCH: PASS



BATCH NO.: GHFMAC0720SMOZ
 METRC UID: 1A406030000A423000005973
 MATRIX: FLOWER
 CATEGORY: INHALABLE
 SAMPLE ID: BCL-220721-089
 COLLECTED ON: JUL 21, 2022
 RECEIVED ON: JUL 21, 2022
 BATCH/SAMPLE SIZE: 22700 G / 80 G

CANNABINOID OVERVIEW

TOTAL THC:	26.74962 %
TOTAL CBD:	0.05272 %
SUM OF CANNABINOIDS:	32.36484 %

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
 1370 ESPERANZA ST, SUITE B
 LOS ANGELES, CA 90023

LICENSE
 C11-0000751-LIC
 ADULT-USE AND MEDICINAL -
 DISTRIBUTOR LICENSE



BCL-03: CANNABINOID POTENCY BY HPLC-UV // JUL 23, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	ND	ND	0.00962/0.21868	N/A
CBCA	0.47649 %	4.7649 mg/g	0.02755/0.21868	N/A
CBD	ND	ND	0.01356/0.21868	N/A
CBDA	0.06011 %	0.6011 mg/g	0.007/0.21868	N/A
CBDV	ND	ND	0.0105/0.21868	N/A
CBDVA	ND	ND	0.007/0.21868	N/A
CBG	0.03319 %	0.3319 mg/g	0.01268/0.21868	N/A
CBGA	1.26482 %	12.6482 mg/g	0.00875/0.21868	N/A
CBN	ND	ND	0.007/0.21868	N/A
Δ ⁸ -THC	ND	ND	0.02537/0.21868	N/A
Δ ⁹ -THC	1.09639 %	10.9639 mg/g	0.01837/0.21868	N/A
THCA	29.25112 %	292.5112 mg/g	0.01312/0.21868	N/A
THCV	ND	ND	0.01443/0.21868	N/A
THCVA	0.18272 %	1.8272 mg/g	0.01006/0.21868	N/A
TOT THC**	26.74962 %	267.4962 mg/g		N/A
TOT CBD**	0.05272 %	0.5272 mg/g		N/A

BCL-09: TERPENOID TESTING BY HS-GC/FID // JUL 24, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
TOTAL TERPENES	1.46762 %	14.6762 mg/g		N/A
D-LIMONENE	0.45679 %	4.5679 mg/g	0.00024/0.13389	N/A
β-CARYOPHYLLENE	0.36229 %	3.6229 mg/g	0.00184/0.13389	N/A
α-PINENE	0.13009 %	1.3009 mg/g	0.00021/0.13389	N/A
LINALOOL	0.12562 %	1.2562 mg/g	0.00035/0.13389	N/A
α-HUMULENE	0.10581 %	1.0581 mg/g	0.00045/0.13389	N/A
β-PINENE	0.10216 %	1.0216 mg/g	0.00217/0.13389	N/A
β-MYRCENE	0.08437 %	0.8437 mg/g	0.00036/0.13389	N/A
α-BISABOLOL	0.08142 %	0.8142 mg/g	0.00418/0.13389	N/A
TRANS-β-OCIMENE	0.01907 %	0.1907 mg/g	0.00048/0.09239	N/A
CAMPHENE	< LOQ	< LOQ	0.00021/0.13389	N/A
TERPINOLENE	< LOQ	< LOQ	0.00028/0.13389	N/A
CIS-β-OCIMENE	ND	ND	0.00129/0.04151	N/A
EUCALYPTOL	ND	ND	0.00045/0.13389	N/A
γ-TERPINENE	ND	ND	0.00045/0.13389	N/A
GERANIOL	ND	ND	0.00028/0.13389	N/A
GUAJOL	ND	ND	0.00262/0.13389	N/A
ISOPULEGOL	ND	ND	0.00052/0.13389	N/A
α-TERPINENE	ND	ND	0.00029/0.13389	N/A
P-CYMENE	ND	ND	0.00026/0.13389	N/A
Δ ³ -CARENE	ND	ND	0.00044/0.13389	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 25, 2022



REGULATORY COMPLIANCE TESTING

BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // JUL 23, 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 // JUL 23, 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	0.03024/0.09159	PASS	CHLORPYRIFOS	Any amt	ND	0.01075/0.03266	PASS
CHLORDANE	Any amt	ND		PASS	DICHLORVOS	Any amt	ND	0.01133/0.03432	PASS
CHLORDANE CIS		ND	0.01069/0.03243	N/A	METHYL PARATHION	Any amt	ND	0.01299/0.03938	PASS
CHLORDANE TRANS		ND	0.01023/0.03093	N/A					



REGULATORY COMPLIANCE TESTING

CHLORFENAPYR Any amt ND 0.02305/0.0698 PASS

PENTACHLORONI-TROBENZENE 0.1 µg/g ND 0.01351/0.04099 PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // JUL 22, 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-020: HEAVY METAL TESTING BY ICP-MS // JUL 23, 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-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM // JUL 23, 2022

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.58	PASS

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR // JUL 23, 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-11: MYCOTOXIN TESTING BY LC-MS/MS // JUL 23, 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-02: MOISTURE CONTENT BY GRAVIMETRY // JUL 22, 2022

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE		10.00	N/A

