

CERTIFICATE OF ANALYSIS

PRODUCED: JUN 11, 2022

SAMPLE: ASTRONAUT OG (FLOWER) // CLIENT: ALKHEMIST DM LLC // BATCH: PASS



BATCH NO.: GHFAOG0606
 METRC UID: 1A406030000A423000005299
 MATRIX: FLOWER
 CATEGORY: INHALABLE
 SAMPLE ID: BCL-220608-027
 COLLECTED ON: JUN 08, 2022
 RECEIVED ON: JUN 08, 2022
 BATCH/SAMPLE SIZE: 22700 G / 80 G

CANNABINOID OVERVIEW

TOTAL THC:	25.13593 %
TOTAL CBD:	0.04438 %
SUM OF CANNABINOIDS:	31.95227 %

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 // JUN 10, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	< LOQ	< LOQ	0.01085/0.24655	N/A
CBCA	1.23690 %	12.3690 mg/g	0.03107/0.24655	N/A
CBD	ND	ND	0.01529/0.24655	N/A
CBDA	0.05060 %	0.5060 mg/g	0.00789/0.24655	N/A
CBDV	ND	ND	0.01183/0.24655	N/A
CBDVA	0.03964 %	0.3964 mg/g	0.00789/0.24655	N/A
CBG	0.13577 %	1.3577 mg/g	0.0143/0.24655	N/A
CBGA	1.83120 %	18.3120 mg/g	0.00986/0.24655	N/A
CBN	ND	ND	0.00789/0.24655	N/A
Δ ⁸ -THC	ND	ND	0.0286/0.24655	N/A
Δ ⁹ -THC	0.98987 %	9.8987 mg/g	0.02071/0.24655	N/A
THCA	27.53256 %	275.3256 mg/g	0.01479/0.24655	N/A
THCV	ND	ND	0.01627/0.24655	N/A
THCVA	0.13573 %	1.3573 mg/g	0.01134/0.24655	N/A
TOT THC**	25.13593 %	251.3593 mg/g		N/A
TOT CBD**	0.04438 %	0.4438 mg/g		N/A

BCL-09: TERPENOID TESTING BY HS-GC/FID // JUN 11, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
TOTAL TERPENES	1.15829 %	11.5829 mg/g		N/A
β-CARYOPHYLLENE	0.53072 %	5.3072 mg/g	0.0019/0.13842	N/A
D-LIMONENE	0.21947 %	2.1947 mg/g	0.00025/0.13842	N/A
α-HUMULENE	0.15013 %	1.5013 mg/g	0.00046/0.13842	N/A
LINALOOL	0.09258 %	0.9258 mg/g	0.00037/0.13842	N/A
β-MYRCENE	0.06082 %	0.6082 mg/g	0.00038/0.13842	N/A
α-BISABOLOL	0.05327 %	0.5327 mg/g	0.00432/0.13842	N/A
β-PINENE	0.03132 %	0.3132 mg/g	0.00224/0.13842	N/A
α-PINENE	0.01998 %	0.1998 mg/g	0.00021/0.13842	N/A
TERPINOLENE	< LOQ	< LOQ	0.00029/0.13842	N/A
CAMPHENE	< LOQ	< LOQ	0.00021/0.13842	N/A
GUAIOL	ND	ND	0.0027/0.13842	N/A
P-CYMENE	ND	ND	0.00027/0.13842	N/A
ISOPULEGOL	ND	ND	0.00054/0.13842	N/A
Δ ³ -CARENE	ND	ND	0.00046/0.13842	N/A
GERANIOL	ND	ND	0.00029/0.13842	N/A
γ-TERPINENE	ND	ND	0.00047/0.13842	N/A
EUCALYPTOL	ND	ND	0.00046/0.13842	N/A
CIS-β-OCIMENE	ND	ND	0.00134/0.04291	N/A
α-TERPINENE	ND	ND	0.0003/0.13842	N/A
TRANS-β-OCIMENE	ND	ND	0.0005/0.09551	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
 JUN 11, 2022



REGULATORY COMPLIANCE TESTING

BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // JUN 09, 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 // JUN 11, 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	0.03127/0.09469	PASS	CHLORPYRIFOS	Any amt	ND	0.01112/0.03376	PASS
CHLORDANE	Any amt	ND		PASS	DICHLORVOS	Any amt	ND	0.01171/0.03549	PASS
CHLORDANE CIS		ND	0.01106/0.03352	N/A	METHYL PARATHION	Any amt	ND	0.01343/0.04072	PASS
CHLORDANE TRANS		ND	0.01058/0.03198	N/A					



REGULATORY COMPLIANCE TESTING

CHLORFENAPYR Any amt ND 0.02384/0.07216 PASS

PENTACHLORONI-TROBENZENE 0.1 µg/g ND 0.01397/0.04238 PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // JUN 08, 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 // JUN 09, 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 // JUN 09, 2022

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.54	PASS

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR // JUN 10, 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 // JUN 09, 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 // JUN 09, 2022

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

