

CERTIFICATE OF ANALYSIS

PRODUCED: DEC 12, 2021

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



BATCH NO.: GHFSTAR1124MP
METRC UID: 1A406030000A423000004196
MATRIX: PRE-ROLL
CATEGORY: INHALABLE
SAMPLE ID: BCL-211207-044
COLLECTED ON: DEC 07, 2021
RECEIVED ON: DEC 07, 2021
BATCH/SAMPLE SIZE: 1800 UNITS / 13 UNITS
PACKAGE SIZE: 2.5 G

CANNABINOID OVERVIEW

TOTAL THC:	25.30447 %
TOTAL CBD:	0.06319 %
TOTAL CANNABINOIDS:	30.47588 %

MANUFACTURER INFO

MANUFACTURER
 MISSION HEALTH ASSOCIATES, INC.
 DBA GLASS HOUSE FARMS

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 // DEC 11, 2021

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	< LOQ	< LOQ	0.01009/0.2294	N/A
CBCA	0.23539 %	2.3539 mg/g	0.0289/0.2294	N/A
CBD	ND	ND	0.01422/0.2294	N/A
CBDA	0.07205 %	0.7205 mg/g	0.00734/0.2294	N/A
CBDV	ND	ND	0.01101/0.2294	N/A
CBDVA	ND	ND	0.00734/0.2294	N/A
CBG	0.05360 %	0.5360 mg/g	0.01331/0.2294	N/A
CBGA	1.24003 %	12.4003 mg/g	0.00918/0.2294	N/A
CBN	ND	ND	0.00734/0.2294	N/A
Δ ⁸ -THC	ND	ND	0.02661/0.2294	N/A
Δ ⁹ -THC	0.89971 %	8.9971 mg/g	0.01927/0.2294	N/A
THCA	27.82755 %	278.2755 mg/g	0.01376/0.2294	N/A
THCV	ND	ND	0.01514/0.2294	N/A
THCVA	0.14755 %	1.4755 mg/g	0.01055/0.2294	N/A
TOT THC **	25.30447 %	253.0447 mg/g		N/A
TOT CBD **	0.06319 %	0.6319 mg/g		N/A
CBD/PKG	ND			N/A
Δ ⁹ -THC/PKG	22.49 mg			N/A
TOT CBD/PKG **	1.58 mg			N/A
TOT THC/PKG **	632.61 mg			N/A

BCL-09: TERPENOID TESTING BY HS-GC/FID // DEC 08, 2021

ANALYTE	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES	1.36938 %	13.6938 mg/g		N/A
β-CARYOPHYLLENE	0.59721 %	5.9721 mg/g	1.91295/139.44223	N/A
α-HUMULENE	0.24119 %	2.4119 mg/g	0.46759/139.44223	N/A
D-LIMONENE	0.22961 %	2.2961 mg/g	0.24971/139.44223	N/A
β-MYRCENE	0.14313 %	1.4313 mg/g	0.37903/139.44223	N/A
α-BISABOLOL	0.06960 %	0.6960 mg/g	4.34812/139.44223	N/A
LINALOOL	0.04054 %	0.4054 mg/g	0.36959/139.44223	N/A
β-PINENE	0.03067 %	0.3067 mg/g	2.25744/139.44223	N/A
α-PINENE	0.01743 %	0.1743 mg/g	0.21528/139.44223	N/A
CAMPHENE	< LOQ	< LOQ	0.21655/139.44223	N/A
Δ ³ -CARENE	< LOQ	< LOQ	0.45957/139.44223	N/A
TERPINOLENE	< LOQ	< LOQ	0.29491/139.44223	N/A
α-TERPINENE	ND	ND	0.29993/139.44223	N/A
β-OCIMENE	ND	ND	0.4992/96.21514	N/A
α-OCIMENE	ND	ND	1.34627/43.22709	N/A
EUCALYPTOL	ND	ND	0.46688/139.44223	N/A
γ-TERPINENE	ND	ND	0.47066/139.44223	N/A
GERANIOL	ND	ND	0.29056/139.44223	N/A
GUAIOL	ND	ND	2.72412/139.44223	N/A
ISOPULEGOL	ND	ND	0.54388/139.44223	N/A
P-CYMENE	ND	ND	0.27175/139.44223	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.
 LABORATORY DIRECTOR, BELCOSTA LABS
 DEC 12, 2021



REGULATORY COMPLIANCE TESTING

BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // DEC 08, 2021

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

BCL-13: PESTICIDE TESTING BY GC/MS // DEC 08, 2021

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	0.01977/0.06	PASS	CHLORPYRIFOS	Any amt	ND	0.01653/0.06	PASS
CHLORDANE	Any amt	ND		PASS	DICHLORVOS	Any amt	ND	0.01165/0.06	PASS
CHLORDANE CIS		ND	0.01199/0.03	N/A	METHYL PARATHION	Any amt	ND	0.00851/0.06	PASS
CHLORDANE TRANS		ND	0.01082/0.03	N/A	PENTACHLORONI-TROBENZENE	0.1 µg/g	ND	0.01282/0.06	PASS
CHLORFENAPYR	Any amt	ND	0.01364/0.06	PASS					



BCL-18: RESIDUAL SOLVENTS ANALYSIS BY HS-GC-MS // DEC 08, 2021

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	1 µg/g	ND	0.15838/0.55249	PASS
ACETONE	5000 µg/g	ND	17.82689/55.24862	PASS
ACETONITRILE	410 µg/g	ND	15.81952/55.24862	PASS
BENZENE	1 µg/g	ND	0.06998/0.55249	PASS
BUTANE	5000 µg/g	ND	16.6814/55.24862	PASS
CHLOROFORM	1 µg/g	ND	0.16206/0.55249	PASS
ETHANOL	5000 µg/g	ND	13.67587/55.24862	PASS
ETHYL ACETATE	5000 µg/g	ND	16.88766/55.24862	PASS
ETHYLENE OXIDE	1 µg/g	ND	0.1768/0.55249	PASS
ETHYL ETHER	5000 µg/g	ND	14.87661/55.24862	PASS
HEPTANE	5000 µg/g	ND	13.01657/55.24862	PASS
HEXANE	290 µg/g	ND	20.04052/92.08103	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	13.81215/55.24862	PASS
METHANOL	3000 µg/g	ND	12.38674/55.24862	PASS
METHYLENE CHLORIDE	1 µg/g	ND	0.13996/0.55249	PASS
PENTANE	5000 µg/g	ND	30.46041/92.08103	PASS
PROPANE	5000 µg/g	ND	15.73849/55.24862	PASS
TOLUENE	890 µg/g	ND	8.69613/55.24862	PASS
TRICHLOROETHYLENE	1 µg/g	ND	0.07366/0.55249	PASS
O-XYLENE		ND	4.11786/27.62431	N/A
P- AND M-XYLENE		ND	3.81584/27.62431	N/A
TOTAL XYLENES	2170 µg/g	ND		PASS

BCL-11: MYCOTOXIN TESTING BY LC-MS/MS // DEC 08, 2021

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 // DEC 08, 2021

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

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // DEC 08, 2021

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 // DEC 09, 2021

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 // DEC 08, 2021

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	0.121	0.0003/0.05	PASS
MERCURY	0.1 µg/g	< LOQ	0.0001/0.01	PASS

BCL-02: MOISTURE CONTENT BY GRAVIMETRY // DEC 08, 2021

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE		9.70	N/A

