

CERTIFICATE OF ANALYSIS

PRODUCED: MAY 16, 2022

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



BATCH NO.: GHFTRH1020430PR  
METRC UID: 1A406030003DC49000001661  
MATRIX: PRE-ROLL  
CATEGORY: INHALABLE  
SAMPLE ID: BCL-220513-038  
COLLECTED ON: MAY 13, 2022  
RECEIVED ON: MAY 13, 2022  
BATCH/SAMPLE SIZE: 937 UNITS / 12 UNITS  
PACKAGE SIZE: 1 G

CANNABINOID OVERVIEW

TOTAL THC:	23.07781 %
TOTAL CBD:	0.07075 %
SUM OF CANNABINOIDS:	27.22023 %

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 // MAY 15, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	0.03649 %	0.3649 mg/g	0.01082/0.24587	N/A
CBCA	0.39720 %	3.9720 mg/g	0.03098/0.24587	N/A
CBD	ND	ND	0.01524/0.24587	N/A
CBDA	0.08067 %	0.8067 mg/g	0.00787/0.24587	N/A
CBDV	ND	ND	0.0118/0.24587	N/A
CBDVA	ND	ND	0.00787/0.24587	N/A
CBG	0.12989 %	1.2989 mg/g	0.01426/0.24587	N/A
CBGA	0.34357 %	3.4357 mg/g	0.00983/0.24587	N/A
CBN	ND	ND	0.00787/0.24587	N/A
Δ <sup>8</sup> -THC	ND	ND	0.02852/0.24587	N/A
Δ <sup>9</sup> -THC	1.58802 %	15.8802 mg/g	0.02065/0.24587	N/A
THCA	24.50375 %	245.0375 mg/g	0.01475/0.24587	N/A
THCV	ND	ND	0.01623/0.24587	N/A
THCVA	0.14064 %	1.4064 mg/g	0.01131/0.24587	N/A
TOT THC**	23.07781 %	230.7781 mg/g		N/A
TOT CBD**	0.07075 %	0.7075 mg/g		N/A
CBD/PKG	ND			N/A
Δ <sup>9</sup> -THC/PKG	15.88 mg			N/A
TOT CBD/PKG**	0.71 mg			N/A
TOT THC/PKG**	230.78 mg			N/A

BCL-09: TERPENOID TESTING BY HS-GC/FID // MAY 16, 2022

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
TOTAL TERPENES	1.00656 %	10.0656 mg/g		N/A
β-CARYOPHYLLENE	0.47729 %	4.7729 mg/g	0.00192/0.13972	N/A
α-HUMULENE	0.16427 %	1.6427 mg/g	0.00047/0.13972	N/A
D-LIMONENE	0.15059 %	1.5059 mg/g	0.00025/0.13972	N/A
LINALOOL	0.07570 %	0.7570 mg/g	0.00037/0.13972	N/A
GUAIOL	0.06335 %	0.6335 mg/g	0.00273/0.13972	N/A
β-MYRCENE	0.03089 %	0.3089 mg/g	0.00038/0.13972	N/A
β-PINENE	0.02711 %	0.2711 mg/g	0.00226/0.13972	N/A
α-PINENE	0.01736 %	0.1736 mg/g	0.00022/0.13972	N/A
β-OCIMENE	< LOQ	< LOQ	0.0005/0.09641	N/A
CAMPHENE	< LOQ	< LOQ	0.00022/0.13972	N/A
GERANIOL	ND	ND	0.00029/0.13972	N/A
P-CYMENE	ND	ND	0.00027/0.13972	N/A
ISOPULEGOL	ND	ND	0.00054/0.13972	N/A
α-BISABOLOL	ND	ND	0.00436/0.13972	N/A
γ-TERPINENE	ND	ND	0.00047/0.13972	N/A
EUCALYPTOL	ND	ND	0.00047/0.13972	N/A
Δ <sup>3</sup> -CARENE	ND	ND	0.00046/0.13972	N/A
α-TERPINENE	ND	ND	0.0003/0.13972	N/A
α-OCIMENE	ND	ND	0.00135/0.04331	N/A
TERPINOLENE	ND	ND	0.0003/0.13972	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  
MAY 16, 2022



## BCL-13: PESTICIDE TESTING BY GC/MS // MAY 15, 2022

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CAPTAN	0.7 µg/g	ND	0.03117/0.09439	PASS
CHLORDANE	Any amt	ND		PASS
CHLORDANE CIS		ND	0.01102/0.03342	N/A
CHLORDANE TRANS		ND	0.01055/0.03188	N/A
CHLORFENAPYR	Any amt	ND	0.02376/0.07193	PASS

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
CHLORPYRIFOS	Any amt	ND	0.01108/0.03366	PASS
DICHLORVOS	Any amt	ND	0.01167/0.03537	PASS
METHYL PARATHION	Any amt	ND	0.01339/0.04059	PASS
PENTACHLORONI-TROBENZENE	0.1 µg/g	ND	0.01392/0.04225	PASS

## BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // MAY 15, 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	ND	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 // MAY 15, 2022**

ANALYTE	LIMIT AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL	
1,2-DICHLOROETHANE	1 µg/g	ND	0.16963/0.59172	PASS
ACETONE	5000 µg/g	ND	19.0927/59.1716	PASS
ACETONITRILE	410 µg/g	ND	16.9428/59.1716	PASS
BENZENE	1 µg/g	ND	0.07495/0.59172	PASS
BUTANE	5000 µg/g	ND	17.86588/59.1716	PASS
CHLOROFORM	1 µg/g	ND	0.17357/0.59172	PASS
ETHANOL	5000 µg/g	ND	14.64694/59.1716	PASS
ETHYL ACETATE	5000 µg/g	ND	18.08679/59.1716	PASS
ETHYLENE OXIDE	1 µg/g	ND	0.18935/0.59172	PASS
ETHYL ETHER	5000 µg/g	ND	15.93294/59.1716	PASS
HEPTANE	5000 µg/g	ND	13.94083/59.1716	PASS
HEXANE	290 µg/g	ND	21.46351/98.61933	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	14.7929/59.1716	PASS
METHANOL	3000 µg/g	ND	13.26627/59.1716	PASS
METHYLENE CHLORIDE	1 µg/g	ND	0.1499/0.59172	PASS
PENTANE	5000 µg/g	ND	32.62327/98.61933	PASS
PROPANE	5000 µg/g	ND	16.85602/59.1716	PASS
TOLUENE	890 µg/g	ND	9.31361/59.1716	PASS
TRICHLOROETHYLENE	1 µg/g	ND	0.0789/0.59172	PASS
O-XYLENE		ND	4.41026/29.5858	N/A
P- AND M-XYLENE		ND	4.08679/29.5858	N/A
TOTAL XYLENES	2170 µg/g	ND		PASS

**BCL-11: MYCOTOXIN TESTING BY LC-MS/MS // MAY 15, 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 // MAY 15, 2022**

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.50	PASS

**BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // MAY 14, 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 // MAY 15, 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 // MAY 14, 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	0.026	0.0001/0.01	PASS

**BCL-02: MOISTURE CONTENT BY GRAVIMETRY // MAY 14, 2022**

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE		8.50	N/A

