

CERTIFICATE OF ANALYSIS

PRODUCED: DEC 08, 2021

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



BATCH NO.: GHFH1123PR
METRC UID: 1A406030000A423000004194
MATRIX: PRE-ROLL
CATEGORY: INHALABLE
SAMPLE ID: BCL-211203-160
COLLECTED ON: DEC 03, 2021
RECEIVED ON: DEC 03, 2021
BATCH/SAMPLE SIZE: 1750 UNITS / 13 UNITS
PACKAGE SIZE: 1 G

CANNABINOID OVERVIEW

TOTAL THC:	23.19619 %
TOTAL CBD:	0.3131 %
TOTAL CANNABINOIDS:	27.45339 %

MANUFACTURER INFO

MANUFACTURER
 MISSION HEALTH ASSOCIATES, INC
 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 // DEC 07, 2021

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	< LOQ	< LOQ	0.01021/0.232	N/A
CBCA	0.26436 %	2.6436 mg/g	0.02923/0.232	N/A
CBD	ND	ND	0.01438/0.232	N/A
CBDA	0.35701 %	3.5701 mg/g	0.00742/0.232	N/A
CBDV	ND	ND	0.01114/0.232	N/A
CBDVA	ND	ND	0.00742/0.232	N/A
CBG	0.13920 %	1.3920 mg/g	0.01346/0.232	N/A
CBGA	0.23082 %	2.3082 mg/g	0.00928/0.232	N/A
CBN	ND	ND	0.00742/0.232	N/A
Δ ⁸ -THC	< LOQ	< LOQ	0.02691/0.232	N/A
Δ ⁹ -THC	0.94423 %	9.4423 mg/g	0.01949/0.232	N/A
THCA	25.37282 %	253.7282 mg/g	0.01392/0.232	N/A
THCV	ND	ND	0.01531/0.232	N/A
THCVA	0.14495 %	1.4495 mg/g	0.01067/0.232	N/A
TOT THC **	23.19619 %	231.9619 mg/g		N/A
TOT CBD **	0.31310 %	3.1310 mg/g		N/A
CBD/PKG	ND			N/A
Δ ⁹ -THC/PKG	9.44 mg			N/A
TOT CBD/PKG **	3.13 mg			N/A
TOT THC/PKG **	231.96 mg			N/A

BCL-09: TERPENOID TESTING BY HS-GC/FID // DEC 06, 2021

ANALYTE	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES	1.36857 %	13.6857 mg/g		N/A
β-CARYOPHYLLENE	0.52851 %	5.2851 mg/g	1.74727/127.36536	N/A
α-HUMULENE	0.18796 %	1.8796 mg/g	0.42709/127.36536	N/A
D-LIMONENE	0.22090 %	2.2090 mg/g	0.22809/127.36536	N/A
α-BISABOLOL	0.13360 %	1.3360 mg/g	3.97153/127.36536	N/A
LINALOOL	0.08700 %	0.8700 mg/g	0.33758/127.36536	N/A
GUAIOL	0.07080 %	0.7080 mg/g	2.48818/127.36536	N/A
β-MYRCENE	0.05375 %	0.5375 mg/g	0.3462/127.36536	N/A
β-PINENE	0.04032 %	0.4032 mg/g	2.06193/127.36536	N/A
α-PINENE	0.02833 %	0.2833 mg/g	0.19664/127.36536	N/A
β-OCIMENE	0.01740 %	0.1740 mg/g	0.45597/87.8821	N/A
CAMPHERE	< LOQ	< LOQ	0.1978/127.36536	N/A
α-TERPINENE	ND	ND	0.27395/127.36536	N/A
α-OCIMENE	ND	ND	1.22967/39.48326	N/A
Δ ³ -CARENE	ND	ND	0.41977/127.36536	N/A
EUCALYPTOL	ND	ND	0.42644/127.36536	N/A
γ-TERPINENE	ND	ND	0.4299/127.36536	N/A
GERANIOL	ND	ND	0.26539/127.36536	N/A
ISOPULEGOL	ND	ND	0.49678/127.36536	N/A
P-CYMELE	ND	ND	0.24821/127.36536	N/A
TERPINOLENE	ND	ND	0.26936/127.36536	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 08, 2021



REGULATORY COMPLIANCE TESTING

BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // DEC 07, 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 07, 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	PENTACHLORONITROBENZENE	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 05, 2021

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	1 µg/g	ND	0.16129/0.56264	PASS
ACETONE	5000 µg/g	ND	18.15454/56.26407	PASS
ACETONITRILE	410 µg/g	ND	16.11028/56.26407	PASS
BENZENE	1 µg/g	ND	0.07127/0.56264	PASS
BUTANE	5000 µg/g	ND	16.988/56.26407	PASS
CHLOROFORM	1 µg/g	ND	0.16504/0.56264	PASS
ETHANOL	5000 µg/g	ND	13.92723/56.26407	PASS
ETHYL ACETATE	5000 µg/g	ND	17.19805/56.26407	PASS
ETHYLENE OXIDE	1 µg/g	ND	0.18005/0.56264	PASS
ETHYL ETHER	5000 µg/g	ND	15.15004/56.26407	PASS
HEPTANE	5000 µg/g	ND	13.25581/56.26407	PASS
HEXANE	290 µg/g	ND	20.40885/93.77344	PASS
ISOPROPYL ALCOHOL	5000 µg/g	< LOQ	14.06602/56.26407	PASS
METHANOL	3000 µg/g	ND	12.61444/56.26407	PASS
METHYLENE CHLORIDE	1 µg/g	ND	0.14254/0.56264	PASS
PENTANE	5000 µg/g	ND	31.02026/93.77344	PASS
PROPANE	5000 µg/g	ND	16.02776/56.26407	PASS
TOLUENE	890 µg/g	ND	8.85596/56.26407	PASS
TRICHLOROETHYLENE	1 µg/g	ND	0.07502/0.56264	PASS
O-XYLENE		ND	4.19355/28.13203	N/A
P- AND M-XYLENE		ND	3.88597/28.13203	N/A
TOTAL XYLENES	2170 µg/g	ND		PASS

BCL-11: MYCOTOXIN TESTING BY LC-MS/MS // DEC 07, 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 05, 2021

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.47	PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // DEC 04, 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 05, 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 05, 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	< LOQ	0.0003/0.05	PASS
MERCURY	0.1 µg/g	< LOQ	0.0001/0.01	PASS

BCL-02: MOISTURE CONTENT BY GRAVIMETRY // DEC 05, 2021

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

