

CERTIFICATE OF ANALYSIS

PRODUCED: OCT 14, 2021

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



BATCH NO.: GHFTH1004MP
METRC UID: 1A406030000A423000003803
MATRIX: PRE-ROLL
CATEGORY: INHALABLE
SAMPLE ID: BCL-211011-037
COLLECTED ON: OCT 11, 2021
RECEIVED ON: OCT 11, 2021
BATCH/SAMPLE SIZE: 980 UNITS / 8 UNITS
PACKAGE SIZE: 2.5 G

CANNABINOID OVERVIEW

TOTAL THC:	27.13911 %
TOTAL CBD:	0.07449 %
TOTAL CANNABINOIDS:	32.11978 %

CULTIVATOR INFO

CULTIVATOR
 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 // OCT 14, 2021

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	0.05491 %	0.5491 mg/g	0.00991/0.22514	N/A
CBCA	0.37261 %	3.7261 mg/g	0.02837/0.22514	N/A
CBD	ND	ND	0.01396/0.22514	N/A
CBDA	0.08494 %	0.8494 mg/g	0.0072/0.22514	N/A
CBDV	ND	ND	0.01081/0.22514	N/A
CBDVA	ND	ND	0.0072/0.22514	N/A
CBG	0.18539 %	1.8539 mg/g	0.01306/0.22514	N/A
CBGA	0.46436 %	4.6436 mg/g	0.00901/0.22514	N/A
CBN	ND	ND	0.0072/0.22514	N/A
Δ ⁸ -THC	ND	ND	0.02612/0.22514	N/A
Δ ⁹ -THC	1.30834 %	13.0834 mg/g	0.01891/0.22514	N/A
THCA	29.45356 %	294.5356 mg/g	0.01351/0.22514	N/A
THCV	ND	ND	0.01486/0.22514	N/A
THCVA	0.19567 %	1.9567 mg/g	0.01036/0.22514	N/A
TOT THC **	27.13911 %	271.3911 mg/g		N/A
TOT CBD **	0.07449 %	0.7449 mg/g		N/A
CBD/PKG	ND			N/A
Δ ⁹ -THC/PKG	32.71 mg			N/A
TOT CBD/PKG **	1.86 mg			N/A
TOT THC/PKG **	678.48 mg			N/A

BCL-09: TERPENOID TESTING BY HS-GC/FID // OCT 13, 2021

ANALYTE	AMT	AMT	LOD/LOQ (µg/g)	PASS/FAIL
TOTAL TERPENES	1.67206 %	16.7206 mg/g		N/A
β-CARYOPHYLLENE	0.73628 %	7.3628 mg/g	1.85065/134.90075	N/A
α-HUMULENE	0.26112 %	2.6112 mg/g	0.45236/134.90075	N/A
α-BISABOLOL	0.24458 %	2.4458 mg/g	0.42065/134.90075	N/A
D-LIMONENE	0.15797 %	1.5797 mg/g	0.24158/134.90075	N/A
LINALOOL	0.08400 %	0.8400 mg/g	0.35755/134.90075	N/A
GUAIOL	0.07723 %	0.7723 mg/g	2.63539/134.90075	N/A
β-MYRCENE	0.05607 %	0.5607 mg/g	0.36669/134.90075	N/A
β-PINENE	0.02619 %	0.2619 mg/g	2.18392/134.90075	N/A
α-PINENE	0.01767 %	0.1767 mg/g	0.20827/134.90075	N/A
β-OCIMENE	0.01095 %	0.1095 mg/g	0.48294/93.08152	N/A
CAMPHENE	< LOQ	< LOQ	0.2095/134.90075	N/A
α-TERPINENE	ND	ND	0.29016/134.90075	N/A
α-OCIMENE	ND	ND	1.30243/41.81923	N/A
Δ ³ -CARENE	ND	ND	0.44461/134.90075	N/A
EUCALYPTOL	ND	ND	0.45167/134.90075	N/A
γ-TERPINENE	ND	ND	0.45533/134.90075	N/A
GERANIOL	ND	ND	0.28109/134.90075	N/A
ISOPULEGOL	ND	ND	0.52617/134.90075	N/A
P-CYMENE	ND	ND	0.26289/134.90075	N/A
TERPINOLENE	ND	ND	0.2853/134.90075	N/A

** TOTAL CBC = (CBCA X 0.877) + CBC
 ** TOTAL CBCV = (CBCVA X 0.867) + CBCV
 ** TOTAL CBD = (CBDA X 0.877) + CBD
 ** TOTAL CBDV = (CBDVA X 0.867) + CBDV
 ** TOTAL CBG = (CBGA X 0.878) + CBG
 ** TOTAL CBGV = (CBGVA X 0.868) + CBGV
 ** TOTAL CBL = (CBLA X 0.894) + CBL
 ** TOTAL THC = (THCA X 0.877) + THC
 ** TOTAL THCV = (THCVA X 0.867) + THCV
 DRY-WEIGHT AMOUNTS SHOWN

REGULATORY COMPLIANCE TESTING

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
OCT 14, 2021

Cody Sheppard



REGULATORY COMPLIANCE TESTING

BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // OCT 13, 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 // OCT 14, 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 // OCT 13, 2021

ANALYTE	LIMIT	AMT (µg/g)	LOD/LOQ (µg/g)	PASS/FAIL
1,2-DICHLOROETHANE	1 µg/g	ND	0.16647/0.58072	PASS
ACETONE	5000 µg/g	ND	18.7379/58.07201	PASS
ACETONITRILE	410 µg/g	ND	16.62795/58.07201	PASS
BENZENE	1 µg/g	ND	0.07356/0.58072	PASS
BUTANE	5000 µg/g	ND	17.53388/58.07201	PASS
CHLOROFORM	1 µg/g	ND	0.17034/0.58072	PASS
ETHANOL	5000 µg/g	ND	14.37476/58.07201	PASS
ETHYL ACETATE	5000 µg/g	ND	17.75068/58.07201	PASS
ETHYLENE OXIDE	1 µg/g	ND	0.18583/0.58072	PASS
ETHYL ETHER	5000 µg/g	ND	15.63686/58.07201	PASS
HEPTANE	5000 µg/g	ND	13.68177/58.07201	PASS
HEXANE	290 µg/g	ND	21.06465/96.78668	PASS
ISOPROPYL ALCOHOL	5000 µg/g	ND	14.518/58.07201	PASS
METHANOL	3000 µg/g	ND	13.01974/58.07201	PASS
METHYLENE CHLORIDE	1 µg/g	ND	0.14712/0.58072	PASS
PENTANE	5000 µg/g	ND	32.01703/96.78668	PASS
PROPANE	5000 µg/g	ND	16.54278/58.07201	PASS
TOLUENE	890 µg/g	ND	9.14053/58.07201	PASS
TRICHLOROETHYLENE	1 µg/g	ND	0.07743/0.58072	PASS
O-XYLENE		ND	4.3283/29.036	N/A
P- AND M-XYLENE		ND	4.01084/29.036	N/A
TOTAL XYLENES	2170 µg/g	ND		PASS

BCL-11: MYCOTOXIN TESTING BY LC-MS/MS // OCT 13, 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 // OCT 12, 2021

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.44	PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // OCT 12, 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 // OCT 13, 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 // OCT 12, 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 // OCT 12, 2021

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE		12.00	N/A

