

CERTIFICATE OF ANALYSIS

PRODUCED: AUG 31, 2024

SAMPLE: ZUE BIRD (FLOWER) // CLIENT: PANDA SOLUTIONS // BATCH: PASS



BATCH NO.: ZB080124
METRC UID: 1A40603000271C9000000024
MATRIX: FLOWER
CATEGORY: INHALABLE
SAMPLE ID: BCL-240826-100
COLLECTED ON: AUG 26, 2024
RECEIVED ON: AUG 26, 2024
BATCH/SAMPLE SIZE: 20257.435 G / 71 G

CANNABINOID OVERVIEW

TOTAL THC:	22.11722 %
TOTAL CBD:	0.18571 %
TOTAL CANNABINOIDS ^{††} :	23.48827 %
SUM OF CANNABINOIDS [†] :	26.70347 %

CULTIVATOR INFO

CULTIVATOR
CDXX VIRTUOSI GROUP LLC
3201 SHANNON STREET
SANTA ANA, CA 92704

LICENSE
C12-0000319-LIC
ADULT-USE - MICROBUSINESS LICENSE

DISTRIBUTOR INFO

DISTRIBUTOR
MODERN LEAF CULTURE, INC.
31881 CORYDON RD ST.150
LAKE ELSINORE, CA 92595

LICENSE
C12-0000415-LIC
ADULT-USE - MICROBUSINESS LICENSE



BCL-28: DETERMINATION OF CANNABINOIDS CONCENTRATION BY HPLC FOR DRIED FLOWER INCLUDING NON-INFUSED PRE-ROLLS // AUG 28, 2024

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC	ND	ND	0.0044/0.09995	N/A
CBCA	0.38226 %	3.8226 mg/g	0.01259/0.09995	N/A
CBD	ND	ND	0.0062/0.09995	N/A
CBDA	0.21176 %	2.1176 mg/g	0.0032/0.09995	N/A
CBDV	ND	ND	0.0048/0.09995	N/A
CBDVA	ND	ND	0.0032/0.09995	N/A
CBG	0.11852 %	1.1852 mg/g	0.0058/0.09995	N/A
CBGA	0.63817 %	6.3817 mg/g	0.004/0.09995	N/A
CBN	ND	ND	0.0032/0.09995	N/A
Δ ⁸ -THC	ND	ND	0.01159/0.09995	N/A
Δ ⁹ -THC	0.44511 %	4.4511 mg/g	0.0084/0.09995	N/A
THCA	24.71164 %	247.1164 mg/g	0.11994/1.999	N/A
THCV	ND	ND	0.0066/0.09995	N/A
THCVA	0.19601 %	1.9601 mg/g	0.0046/0.09995	N/A
TOT THC ^{**}	22.11722 %	221.1722 mg/g		N/A
TOT CBD ^{**}	0.18571 %	1.8571 mg/g		N/A

DRY-WEIGHT AMOUNTS SHOWN

^{**} TOTAL THC = DELTA-8-THC + (DELTA-8-THCA X 0.877) + DELTA-9-THC + (THCA X 0.877)

^{**} TOTAL CBD = CBD + (CBDA X 0.877)

[†] SUM OF CANNABINOIDS = CBC + CBCA + CBD + CBDA + CBDV + CBDVA + CBG + CBGA + CBN + DELTA-8-THC + THCA + THCV + THCVA

^{††} TOTAL CANNABINOIDS = (CBC + CBD + CBDV + CBG + CBN + DELTA-8-THC + DELTA-9-THC + THCV) + (0.877 * (CBCA + CBDA + CBDVA + CBGA + THCA + THCVA))

BCL-09: TERPENOID TESTING BY HS-GC/FID // AUG 28, 2024

ANALYTE	AMT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
TOTAL TERPENES	1.96530 %	19.6530 mg/g		N/A
β-MYRCENE	0.59106 %	5.9106 mg/g	0.00037/0.13744	N/A
D-LIMONENE	0.45270 %	4.5270 mg/g	0.00025/0.13744	N/A
β-CARYOPHYLLENE	0.37740 %	3.7740 mg/g	0.00189/0.13744	N/A
LINALOOL	0.24599 %	2.4599 mg/g	0.00036/0.13744	N/A
α-HUMULENE	0.13310 %	1.3310 mg/g	0.00046/0.13744	N/A
β-PINENE	0.06647 %	0.6647 mg/g	0.00223/0.13744	N/A
α-BISABOLOL	0.06368 %	0.6368 mg/g	0.00429/0.13744	N/A
α-PINENE	0.03490 %	0.3490 mg/g	0.00021/0.13744	N/A
CAMPHERE	< LOQ	< LOQ	0.00021/0.13744	N/A
TERPINOLENE	< LOQ	< LOQ	0.00029/0.13744	N/A
α-TERPINENE	ND	ND	0.0003/0.13744	N/A
CIS-β-OCIMENE	ND	ND	0.00133/0.04261	N/A
Δ ³ -CARENE	ND	ND	0.00045/0.13744	N/A
EUCALYPTOL	ND	ND	0.00046/0.13744	N/A
γ-TERPINENE	ND	ND	0.00046/0.13744	N/A
GERANIOL	ND	ND	0.00029/0.13744	N/A
GUAIOL	ND	ND	0.00269/0.13744	N/A
ISOPULEGOL	ND	ND	0.00054/0.13744	N/A
P-CYME	ND	ND	0.00027/0.13744	N/A
TRANS-β-OCIMENE	ND	ND	0.00049/0.09484	N/A

LABORATORY PERFORMED SAMPLING AS PER BCL-01 AT 31881 CORYDON RD ST.150, LAKE ELSINORE, CA 92595. THE RESULTS RELATE ONLY TO THE ITEMS TESTED. 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. ALL DECISION RULES ARE ESTABLISHED BY THE DCC.

RESULTS CERTIFIED BY: DZOANA KLISARA, B.SC.
LABORATORY DIRECTOR, BELCOSTA LABS
AUG 31, 2024

Dzoana Klisara



BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI // AUG 31, 2024

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	0.01972/0.0696	PASS	METALAXYL	2 µg/g	ND	0.00379/0.06054	PASS
ACEPHATE	0.1 µg/g	ND	0.00862/0.0606	PASS	METHIOCARB	Any amt	ND	0.01182/0.06042	PASS
ACEQUINOCYL	0.1 µg/g	ND	0.00784/0.06	PASS	METHOMYL	1 µg/g	ND	0.00504/0.06042	PASS
ACETAMIPRID	0.1 µg/g	ND	0.00491/0.06042	PASS	MEVINPHOS	Any amt	ND		PASS
ALDICARB	Any amt	ND	0.01231/0.06042	PASS	MEVINPHOS I		ND	0.002/0.01877	N/A
AZOXYSTROBIN	0.1 µg/g	ND	0.0059/0.06048	PASS	MEVINPHOS II		ND	0.00532/0.04177	N/A
BIFENAZATE	0.1 µg/g	ND	0.00876/0.0603	PASS	MYCLOBUTANIL	0.1 µg/g	ND	0.00604/0.0603	PASS
BIFENTHRIN	3 µg/g	ND	0.00958/0.06	PASS	NALED	0.1 µg/g	ND	0.00848/0.05994	PASS
BOSCALID	0.1 µg/g	ND	0.0171/0.0606	PASS	OXAMYL	0.5 µg/g	ND	0.0052/0.06036	PASS
CARBARYL	0.5 µg/g	ND	0.0079/0.0603	PASS	PACLOBUTRAZOL	Any amt	ND	0.00849/0.06036	PASS
CARBOFURAN	Any amt	ND	0.00227/0.06036	PASS	PERMETHRIN	0.5 µg/g	ND		PASS
CHLORANTRANIL-IPROLE	10 µg/g	ND	0.011/0.06054	PASS	PERMETHRIN CIS		ND	0.0288/0.1021	N/A
CLOFENTEZINE	0.1 µg/g	ND	0.00507/0.0603	PASS	PERMETHRIN TRANS		ND	0.04398/0.15589	N/A
COUMAPHOS	Any amt	ND	0.0193/0.0684	PASS	PHOSMET	0.1 µg/g	ND	0.00607/0.06042	PASS
CYFLUTHRIN	2 µg/g	ND	0.23945/0.8484	PASS	PIPERONYLBUTOXIDE	3 µg/g	ND	0.00394/0.06012	PASS
CYPERMETHRIN	1 µg/g	ND	0.07946/0.6	PASS	PRALLETHRIN	0.1 µg/g	ND	0.00818/0.06	PASS
DAMINOZIDE	Any amt	ND	0.00625/0.0606	PASS	PROPICONAZOLE	0.1 µg/g	ND	0.00485/0.0603	PASS
DIAZINON	0.1 µg/g	ND	0.00536/0.0606	PASS	PROPOXUR	Any amt	ND	0.0072/0.06042	PASS
DIMETHOATE	Any amt	ND	0.00621/0.0606	PASS	PYRETHRINS	0.5 µg/g	ND		PASS
DIMETHOMORPH	2 µg/g	ND		PASS	PYRETHRINS PYRETHRIN I		ND	0.02641/0.09362	N/A
DIMETHOMORPH I		ND	0.00422/0.02545	N/A	PYRETHRINS PYRETHRIN II		ND	0.018/0.0638	N/A
DIMETHOMORPH II		ND	0.00229/0.03515	N/A	PYRIDABEN	0.1 µg/g	ND	0.00906/0.0606	PASS
ETHOPROPHOS	Any amt	ND	0.0085/0.0606	PASS	SPINETORAM	0.1 µg/g	ND		PASS
ETOENPROX	Any amt	ND	0.00539/0.06054	PASS	SPINETORAM J		ND	0.00681/0.0156	N/A
ETOXAZOLE	0.1 µg/g	ND	0.00416/0.06036	PASS	SPINETORAM L		ND	0.00345/0.0444	N/A
FENHEXAMID	0.1 µg/g	ND	0.01569/0.0606	PASS	SPINOSAD	0.1 µg/g	ND		PASS
FENOXYCARB	Any amt	ND	0.00565/0.06048	PASS	SPINOSAD A		ND	0.00558/0.04601	N/A
FENPYROXIMATE	0.1 µg/g	ND	0.00671/0.06048	PASS	SPINOSAD D		ND	0.00123/0.01453	N/A
FIPRONIL	Any amt	ND	0.00911/0.0603	PASS	SPIROMESIFEN	0.1 µg/g	ND	0.01985/0.0708	PASS
FLONICAMID	0.1 µg/g	ND	0.00275/0.0606	PASS	SPIROTETRAMAT	0.1 µg/g	ND	0.00482/0.06054	PASS
FLUDIOXONIL	0.1 µg/g	ND	0.02537/0.09	PASS	SPIROXAMINE	Any amt	ND	0.00338/0.06018	PASS
HEXYTHIAZOX	0.1 µg/g	ND	0.00585/0.0606	PASS	TEBUCONAZOLE	0.1 µg/g	ND	0.00726/0.0603	PASS
IMAZALIL	Any amt	ND	0.00862/0.06036	PASS	THIACLOPRID	Any amt	ND	0.00497/0.0603	PASS
IMIDACLOPRID	5 µg/g	ND	0.00851/0.06036	PASS	THIAMETHOXAM	5 µg/g	ND	0.00349/0.06036	PASS
KRESOXIM-METHYL	0.1 µg/g	ND	0.00871/0.06036	PASS	TRIFLOXYSTROBIN	0.1 µg/g	ND	0.00529/0.0603	PASS
MALATHION	0.5 µg/g	ND	0.00764/0.0606	PASS					

BCL-13: PESTICIDE TESTING BY GC/MS // AUG 31, 2024

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	0.03033/0.09185	PASS	CHLORPYRIFOS	Any amt	ND	0.01078/0.03275	PASS
CHLORDANE	Any amt	ND		PASS	DICHLORVOS	Any amt	ND	0.01136/0.03442	PASS
CHLORDANE CIS		ND	0.01072/0.03252	N/A	METHYL PARATHION	Any amt	ND	0.01303/0.0395	PASS
CHLORDANE TRANS		ND	0.01026/0.03102	N/A					



REGULATORY COMPLIANCE TESTING

CHLORFENAPYR Any amt ND 0.02312/0.07 PASS

PENTACHLORONI-TROBENZENE 0.1 µg/g ND 0.01355/0.04111 PASS

BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR // AUG 28, 2024

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
SALMONELLA SPP.	Any amt in 1 gram	ND	PASS
SHIGA TOXIN-PRODUCING E. COLI	Any amt in 1 gram	ND	PASS

BCL-020: HEAVY METAL TESTING BY ICP-MS // AUG 27, 2024

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 // AUG 28, 2024

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
MOISTURE		10.00	N/A

BCL-05: MYCOTOXIN TESTING BY LC-MS/MS // AUG 31, 2024

ANALYTE	LIMIT	AMT (µg/kg)	LOD/LOQ (µg/kg)	PASS/FAIL
AFLATOXIN B1		ND	1.19/4.22	N/A
AFLATOXIN B2		ND	1.45/5.12	N/A
AFLATOXIN G1		ND	1.58/5.6	N/A
AFLATOXIN G2		ND	0.63/3	N/A
AFLATOXINS	20 µg/kg	ND		PASS
OCHRATOXIN A	20 µg/kg	ND	0.63/6	PASS

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY // AUG 27, 2024

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-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM // AUG 27, 2024

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.59	PASS

ACCREDITATIONS



A2LA ACCREDITED

BCL-02: MOISTURE CONTENT BY GRAVIMETRY
 BCL-020: HEAVY METAL TESTING BY ICP-MS
 BCL-05: MYCOTOXIN TESTING BY LC-MS/MS
 BCL-05: RESIDUAL PESTICIDE ANALYSIS BY LC-MS/MS ESI
 BCL-06: MICROBIOLOGICAL ANALYSIS BY QPCR

BCL-07: FOREIGN MATERIAL TESTING BY MICROSCOPY
 BCL-09: TERPENOID TESTING BY HS-GC/FID
 BCL-12: WATER ACTIVITY BY HUMIDITY EQUILIBRIUM
 BCL-13: PESTICIDE TESTING BY GC/MS

