

CERTIFICATE OF ANALYSIS

PRODUCED: JAN 04, 2023

SAMPLE: TICKLE (FLOWER) // CLIENT: ALPHA GROW // BATCH: PASS



BATCH NO.: 1A40503000252ED000001000
METRC TAG: 1A40503000252ED000001004
MATRIX: FLOWER
CATEGORY: INHALABLE
SAMPLE ID: CL-161222-062
COLLECTED ON: DEC 16, 2022
RECEIVED ON: DEC 16, 2022
BATCH/SAMPLE SIZE: 10930 G / 55.3 G
RECEIVED BY: ANDREW HARDING

CANNABINOID OVERVIEW

TOTAL THC:	24.49 %
TOTAL CBD:	0.03 %
TOTAL CANNABINOIDS:	28.22 %

CULTIVATOR INFO

CULTIVATOR

42469 IRWIN, LLC
 42469 IRWIN DRIVE
 HARRISON TOWNSHIP, MI 48045

LICENSE

AU-G-C-000603
 ADULT-USE - CLASS C MARIHUANA
 GROWER

BATCH RESULT: PASS

POTENCY	TESTED	PESTICIDES	PASS
FOREIGN	PASS	TERPENES	TESTED
METALS	PASS	WATER	PASS
MICROBIAL	PASS		

CL-01: CANNABINOID POTENCY BY HPLC-PDA // DEC 20, 2022

ANALYTE	LIMIT	AMT	LOD/LOQ (mg/g)	PASS/FAIL	ANALYTE	LIMIT	AMT	LOD/LOQ (mg/g)	PASS/FAIL
CBC		ND	0.018/0.059	N/A	CBN		ND	0.016/0.054	N/A
CBD		ND	0.038/0.13	N/A	Δ ⁸ -THC		ND	0.044/0.15	N/A
CBDA	0.035 %		0.02/0.068	N/A	Δ ⁹ -THC	0.678 %		0.043/0.14	N/A
CBDV		ND	0.035/0.12	N/A	THCA	27.148 %		0.023/0.077	N/A
CBDA		ND	0.019/0.064	N/A	THCV		ND	0.041/0.14	N/A
CBG		ND	0.039/0.13	N/A	TOTAL THC **	24.487 %			N/A
CBGA	0.358 %		0.021/0.07	N/A	TOTAL CBD **	0.031 %			N/A

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

** TOTAL CBD = CBD + (CBDA X 0.877)

CL-02: TERPENE ANALYSIS BY GC-MS WITH HEADSPACE // JAN 04, 2023

ANALYTE	AMT	LOD/LOQ (ppm)	PASS/FAIL	ANALYTE	AMT	LOD/LOQ (ppm)	PASS/FAIL
TOTAL TERPENES	2.723 %		N/A	CIS-NEROLIDOL	0.026 %	0.323/1.076	N/A
TRANS-CARYOPHYLLENE	0.799 %	0.267/0.889	N/A	TERPINOLENE	0.008 %	0.053/0.177	N/A
LIMONENE	0.346 %	0.035/0.118	N/A	α-BISABOLOL	0.007 %	0.884/2.948	N/A
α-HUMULENE	0.293 %	0.044/0.146	N/A	CARYOPHYLLENE OXIDE	0.004 %	0.267/0.889	N/A
α-PINENE	0.283 %	0.017/0.057	N/A	ISOPULEGOL	0.002 %	0.213/0.708	N/A
CIS-β-OCIMENE	0.253 %	0.022/0.074	N/A	α-TERPINENE	0.001 %	0.03/0.102	N/A
β-MYRCENE	0.177 %	0.042/0.139	N/A	Δ ³ -CARENE	0.001 %	0.027/0.089	N/A
LINALOOL	0.123 %	0.076/0.252	N/A	EUCALYPTOL	0.001 %	0.071/0.236	N/A
TRANS-NEROLIDOL	0.230 %	0.313/1.045	N/A	γ-TERPINENE	0.001 %	0.021/0.071	N/A
β-PINENE	0.120 %	0.019/0.062	N/A	GERANIOL	0.001 %	0.076/0.252	N/A
CAMPHERE	0.046 %	0.03/0.101	N/A	GUAIOL	0.001 %	0.238/0.795	N/A



PER ISO 17025, THIS REPORT ONLY CONTAINS AND CONCERNS THE SAMPLES LISTED WITHIN THIS DOCUMENT. SAMPLES WERE SAMPLED AND TESTED IN ACCORDANCE WITH THE SAFETY COMPLIANCE FACILITY SAMPLING AND TESTING INFORMATION PROVIDED BY THE STATE OF MICHIGAN.

RESULTS CERTIFIED BY: MANIK GUDIMANI
 LAB DIRECTOR, SC LABS
 JAN 04, 2023



CL-04: PESTICIDE ANALYSIS BY LC-MS/MS // DEC 20, 2022

ANALYTE	LIMIT	AMT (ppm)	LOD/LOQ (ppm)	PASS/FAIL
ABAMECTIN	0.5 µg/g	ND	0.0008/0.0025	PASS
ACEPHATE	0.4 µg/g	ND	0.0044/0.0132	PASS
ACEQUINOCYL	2 µg/g	ND	0.0078/0.0237	PASS
ACETAMIPRID	0.2 µg/g	ND	0.0004/0.0013	PASS
ALDICARB	0.4 µg/g	ND	0.0003/0.0009	PASS
AZOXYSTROBIN	0.2 µg/g	ND	0.0003/0.0009	PASS
BIFENAZATE	0.2 µg/g	ND	0.0002/0.0007	PASS
BIFENTHRIN	0.2 µg/g	ND	0.0004/0.0013	PASS
BOSCALID	0.4 µg/g	ND	0.003/0.0091	PASS
CARBARYL	0.2 µg/g	ND	0.0004/0.0013	PASS
CARBOFURAN	0.2 µg/g	ND	0.00001/0.00002	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	0.0002/0.0007	PASS
CHLORFENAPYR	1 µg/g	ND	0.0449/0.1362	PASS
CHLORPYRIFOS	0.2 µg/g	ND	0.0002/0.0005	PASS
CLOFENTEZINE	0.2 µg/g	ND	0.0003/0.001	PASS
CYFLUTHRIN	1 µg/g	ND	0.0063/0.0191	PASS
CYPERMETHRIN	1 µg/g	ND	0.0048/0.0146	PASS
DAMINOZIDE	1 µg/g	ND	0.0003/0.001	PASS
DIAZINON	0.2 µg/g	ND	0.0001/0.0004	PASS
DICHLORVOS	1 µg/g	ND	0.0001/0.0002	PASS
DIMETHOATE	0.2 µg/g	ND	0.0002/0.0006	PASS
ETHOPROPHOS	0.2 µg/g	ND	0.0002/0.0005	PASS
ETOFENPROX	0.4 µg/g	ND	0.0003/0.0009	PASS
ETOXAZOLE	0.2 µg/g	ND	0.0002/0.0005	PASS
FENOXYCARB	0.2 µg/g	ND	0.0003/0.0009	PASS
FENPYROXIMATE	0.4 µg/g	ND	0.0002/0.0007	PASS
FIPRONIL	0.4 µg/g	ND	0.001/0.0031	PASS
FLONICAMID	1 µg/g	ND	0.0003/0.0009	PASS
FLUDIOXONIL	0.4 µg/g	ND	0.0004/0.0011	PASS
HEXYTHIAZOX	1 µg/g	ND	0.0002/0.0005	PASS
IMAZALIL	0.2 µg/g	ND	0.0018/0.0056	PASS
IMIDACLOPRID	0.4 µg/g	ND	0.0005/0.0014	PASS

ANALYTE	LIMIT	AMT (ppm)	LOD/LOQ (ppm)	PASS/FAIL
KRESOXIM-METHYL	0.4 µg/g	ND	0.0003/0.0008	PASS
MALATHION	0.2 µg/g	ND	0.0002/0.0007	PASS
METALAXYL	0.2 µg/g	ND	0.0001/0.0003	PASS
METHIOCARB	0.2 µg/g	ND	0.0001/0.0004	PASS
METHOMYL	0.4 µg/g	ND	0.0007/0.002	PASS
METHYL PARATHION	0.2 µg/g	ND	0.0021/0.0063	PASS
MGK-264	0.2 µg/g	ND	0.0237/0.0717	PASS
MYCLOBUTANIL	0.2 µg/g	ND	0.0003/0.001	PASS
NALED	0.5 µg/g	ND	0.0008/0.0025	PASS
OXAMYL	1 µg/g	ND	0.0034/0.0102	PASS
PACLOBUTRAZOL	0.4 µg/g	ND	0.0004/0.0011	PASS
PERMETHRIN	0.2 µg/g	ND	0.0233/0.0707	PASS
PHOSMET	0.2 µg/g	ND	0.0002/0.0007	PASS
PRALLETHRIN	0.2 µg/g	ND	0.0009/0.0027	PASS
PROPICONAZOLE	0.4 µg/g	ND	0.0005/0.0014	PASS
PROPOXUR	0.2 µg/g	ND	0.0001/0.0003	PASS
PYRETHRINS	1 µg/g	ND		PASS
PYRETHRINS CINERIN I		ND	0.0005/0.0035	N/A
PYRETHRINS JASMOLIN I		ND	0.0009/0.0027	N/A
PYRETHRINS PYRETHRIN I		ND	0.0003/0.001	N/A
PYRIDABEN	0.2 µg/g	ND	0.0002/0.0005	PASS
SPINOSAD	0.2 µg/g	ND		PASS
SPINOSAD A		ND	0.0003/0.0008	N/A
SPINOSAD D		ND	0.0002/0.0006	N/A
SPIROMESIFEN	0.2 µg/g	ND	0.0003/0.0011	PASS
SPIROTETRAMAT	0.2 µg/g	ND	0.001/0.003	PASS
SPIROXAMINE	0.4 µg/g	ND	0.0001/0.0005	PASS
TEBUCONAZOLE	0.4 µg/g	ND	0.0001/0.0004	PASS
THIACLOPRID	0.2 µg/g	ND	0.0002/0.0007	PASS
THIAMETHOXAM	0.2 µg/g	ND	0.0003/0.0009	PASS
TRIFLOXYSTROB-IN	0.2 µg/g	ND	0.0001/0.0005	PASS



CL-07: COLIFORMS AND YEAST & MOLD // DEC 20, 2022

ANALYTE	LIMIT	AMT (CFU/g)	LOD/LOQ (CFU/g)	PASS/FAIL
COLIFORMS	1000 CFU/g	ND	100/100	PASS

ANALYTE	LIMIT	AMT (CFU/g)	LOD/LOQ (CFU/g)	PASS/FAIL
YEAST & MOLD	100000 CFU/g	60000	1000/1000	PASS

CL-07: E. COLI AND SALMONELLA BY QPCR // DEC 20, 2022

ANALYTE	LIMIT	AMT (CFU/g)	LOD/LOQ	PASS/FAIL
SALMONELLA SPP.	Any amount in 1 gram	ND		PASS

ANALYTE	LIMIT	AMT (CFU/g)	LOD/LOQ	PASS/FAIL
SHIGA TOXIN-PRODUCING E. COLI	Any amount in 1 gram	ND		PASS

CL-07: ASPERGILLUS BY QPCR // DEC 20, 2022

ANALYTE	LIMIT	AMT (CFU/g)	LOD/LOQ	PASS/FAIL
ASPERGILLUS FLAVUS	Any amount in 1 gram	ND		PASS
ASPERGILLUS FUMIGATUS	Any amount in 1 gram	ND		PASS
ASPERGILLUS NIGER	Any amount in 1 gram	ND		PASS

ANALYTE	LIMIT	AMT (CFU/g)	LOD/LOQ	PASS/FAIL
ASPERGILLUS SPP.	Any amount in 1 gram	ND		PASS
ASPERGILLUS TERREUS	Any amount in 1 gram	ND		PASS

CL-06: HEAVY METAL ANALYSIS BY ICP-MS // DEC 20, 2022

ANALYTE	LIMIT	AMT (ppm)	LOD/LOQ (ppm)	PASS/FAIL
ARSENIC	0.4 µg/g	ND	0.006/0.016	PASS
CADMIUM	0.4 µg/g	< LOQ	0.002/0.006	PASS
CHROMIUM	1.2 µg/g	ND	0.094/0.28	PASS
COPPER		5.340	0.138/0.296	N/A

ANALYTE	LIMIT	AMT (ppm)	LOD/LOQ (ppm)	PASS/FAIL
LEAD	1 µg/g	0.022	0.002/0.005	PASS
MERCURY	0.2 µg/g	ND	0.0269/0.06	PASS
NICKEL	1 µg/g	ND	0.068/0.196	PASS

CL-09: WATER ACTIVITY // DEC 20, 2022

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.4268	PASS

CL-10: FOREIGN MATTER ANALYSIS // DEC 20, 2022

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
INORGANIC MATTER	Any amount	ND	PASS
ORGANIC MATTER	2 %	ND	PASS

ANALYTE	LIMIT	AMT (%)	PASS/FAIL
STEMS	5 %	ND	PASS

NOTES

YASH GUDIMANI TERPENE ANALYSIS BY GC-MS WITH HEADSPACE
 JAN 04, 2023 FOR INFORMATION PURPOSES ONLY

FOREIGN MATTER IMAGES

