

CERTIFICATE OF ANALYSIS

PRODUCED: JUL 21, 2022

SAMPLE: GORILLA FIRE COOKIE (FLOWER) // CLIENT: ALPHA GROW // BATCH: PASS



BATCH NO.: 1A40503000252ED000000279
METRC TAG: 1A40503000252ED000000281
MATRIX: FLOWER
CATEGORY: INHALABLE
SAMPLE ID: CL-180722-006
COLLECTED ON: JUL 18, 2022
RECEIVED ON: JUL 18, 2022
BATCH/SAMPLE SIZE: 14731 G / 73.6 G
RECEIVED BY: KEVIN WALKER

CANNABINOID OVERVIEW

TOTAL THC:	23.42 %
TOTAL CBD:	0.12 %
TOTAL CANNABINOIDS:	27.72 %

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 // JUL 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		0.014 %	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	0.132 %		0.02/0.068	N/A	Δ ⁹ -THC		0.417 %	0.043/0.14	N/A
CBDV	0.073 %		0.035/0.12	N/A	THCA		26.234 %	0.023/0.077	N/A
CBDVA		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 **		23.424 %		N/A
CBGA	0.846 %		0.021/0.07	N/A	TOTAL CBD **		0.116 %		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 // JUL 20, 2022

ANALYTE	AMT	LOD/LOQ (ppm)	PASS/FAIL	ANALYTE	AMT	LOD/LOQ (ppm)	PASS/FAIL
TOTAL TERPENES	1.124 %		N/A	TERPINOLENE	0.003 %	0.053/0.177	N/A
TRANS-CARYOPHYLLENE	0.355 %	0.267/0.889	N/A	CARYOPHYLLENE OXIDE	0.002 %	0.267/0.889	N/A
LIMONENE	0.186 %	0.035/0.118	N/A	γ-TERPINENE	0.001 %	0.021/0.071	N/A
β-MYRCENE	0.169 %	0.042/0.139	N/A	GERANIOL	0.001 %	0.076/0.252	N/A
TRANS-NEROLIDOL	0.114 %	0.313/1.045	N/A	GUAIOL	0.001 %	0.238/0.795	N/A
CIS-β-OCIMENE	0.103 %	0.022/0.074	N/A	α-TERPINENE	0.001 %	0.03/0.102	N/A
β-PINENE	0.075 %	0.019/0.062	N/A	EUCALYPTOL	0.001 %	0.071/0.236	N/A
LINALOOL	0.054 %	0.076/0.252	N/A	Δ³-CARENE	ND	0.027/0.089	N/A
α-PINENE	0.041 %	0.017/0.057	N/A	ISOPULEGOL	ND	0.213/0.708	N/A
CIS-NEROLIDOL	0.012 %	0.323/1.076	N/A	CAMPHENE	ND	0.03/0.101	N/A
α-BISABOLOL	0.005 %	0.884/2.948	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, CAN-LAB
 JUL 21, 2022

Manik Gudimani

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

ANALYTE	LIMIT	AMT (ppm)	LOD/LOQ (ppm)	PASS/FAIL	ANALYTE	LIMIT	AMT (ppm)	LOD/LOQ (ppm)	PASS/FAIL
ABAMECTIN	0.5 µg/g	ND	0.0008/0.0025	PASS	KRESOXIM-METHYL	0.4 µg/g	ND	0.0003/0.0008	PASS
ACEPHATE	0.4 µg/g	ND	0.0044/0.0132	PASS	MALATHION	0.2 µg/g	ND	0.0002/0.0007	PASS
ACEQUINOCYL	2 µg/g	ND	0.0078/0.0237	PASS	METALAXYL	0.2 µg/g	ND	0.0001/0.0003	PASS
ACETAMIPRID	0.2 µg/g	ND	0.0004/0.0013	PASS	METHIOCARB	0.2 µg/g	ND	0.0001/0.0004	PASS
ALDICARB	0.4 µg/g	ND	0.0003/0.0009	PASS	METHOMYL	0.4 µg/g	ND	0.0007/0.002	PASS
AZOXYSTROBIN	0.2 µg/g	ND	0.0003/0.0009	PASS	METHYL PARATHION	0.2 µg/g	ND	0.0021/0.0063	PASS
BIFENAZATE	0.2 µg/g	ND	0.0002/0.0007	PASS	MGK-264	0.2 µg/g	ND	0.0237/0.0717	PASS
BIFENTHRIN	0.2 µg/g	ND	0.0004/0.0013	PASS	MYCLOBUTANIL	0.2 µg/g	ND	0.0003/0.001	PASS
BOSCALID	0.4 µg/g	ND	0.003/0.0091	PASS	NALED	0.5 µg/g	ND	0.0008/0.0025	PASS
CARBARYL	0.2 µg/g	ND	0.0004/0.0013	PASS	OXAMYL	1 µg/g	ND	0.0034/0.0102	PASS
CARBOFURAN	0.2 µg/g	ND	0.00001/0.00002	PASS	PACLOBUTRAZOL	0.4 µg/g	ND	0.0004/0.0011	PASS
CHLORANTRANIL-IPROLE	0.2 µg/g	ND	0.0002/0.0007	PASS	PERMETHRIN	0.2 µg/g	ND	0.0233/0.0707	PASS
CHLORFENAPYR	1 µg/g	ND	0.0449/0.1362	PASS	PHOSMET	0.2 µg/g	ND	0.0002/0.0007	PASS
CHLORPYRIFOS	0.2 µg/g	ND	0.0002/0.0005	PASS	PRALLETHRIN	0.2 µg/g	ND	0.0009/0.0027	PASS
CLOFENTEZINE	0.2 µg/g	ND	0.0003/0.001	PASS	PROPICONAZOLE	0.4 µg/g	ND	0.0005/0.0014	PASS
CYFLUTHRIN	1 µg/g	ND	0.0063/0.0191	PASS	PROPOXUR	0.2 µg/g	ND	0.0001/0.0003	PASS
CYPERMETHRIN	1 µg/g	ND	0.0048/0.0146	PASS	PYRETHRINS	1 µg/g	ND		PASS
DAMINOZIDE	1 µg/g	ND	0.0003/0.001	PASS	PYRETHRINS CINERIN I		ND	0.0005/0.0035	N/A
DIAZINON	0.2 µg/g	ND	0.0001/0.0004	PASS	PYRETHRINS JASMOLIN I		ND	0.0009/0.0027	N/A
DICHLORVOS	1 µg/g	ND	0.0001/0.0002	PASS	PYRETHRINS PYRETHRIN I		ND	0.0003/0.001	N/A
DIMETHOATE	0.2 µg/g	ND	0.0002/0.0006	PASS	PYRIDABEN	0.2 µg/g	ND	0.0002/0.0005	PASS
ETHOPROPHOS	0.2 µg/g	ND	0.0002/0.0005	PASS	SPINOSAD	0.2 µg/g	ND		PASS
ETOFENPROX	0.4 µg/g	ND	0.0003/0.0009	PASS	SPINOSAD A		ND	0.0003/0.0008	N/A
ETOXAZOLE	0.2 µg/g	ND	0.0002/0.0005	PASS	SPINOSAD D		ND	0.0002/0.0006	N/A
FENOXYCARB	0.2 µg/g	ND	0.0003/0.0009	PASS	SPIROMESIFEN	0.2 µg/g	ND	0.0003/0.0011	PASS
FENPYROXIMATE	0.4 µg/g	ND	0.0002/0.0007	PASS	SPIROTETRAMAT	0.2 µg/g	ND	0.001/0.003	PASS
FIPRONIL	0.4 µg/g	ND	0.001/0.0031	PASS	SPIROXAMINE	0.4 µg/g	ND	0.0001/0.0005	PASS
FLONICAMID	1 µg/g	ND	0.0003/0.0009	PASS	TEBUCONAZOLE	0.4 µg/g	ND	0.0001/0.0004	PASS
FLUDIOXONIL	0.4 µg/g	ND	0.0004/0.0011	PASS	THIACLOPRID	0.2 µg/g	ND	0.0002/0.0007	PASS
HEXYTHIAZOX	1 µg/g	ND	0.0002/0.0005	PASS	THIAMETHOXAM	0.2 µg/g	ND	0.0003/0.0009	PASS
IMAZALIL	0.2 µg/g	ND	0.0018/0.0056	PASS	TRIFLOXYSTROB-IN	0.2 µg/g	ND	0.0001/0.0005	PASS
IMIDACLOPRID	0.4 µg/g	ND	0.0005/0.0014	PASS					

Cannabis Laboratory & Analytics



CL-07: E. COLI AND SALMONELLA BY QPCR // JUL 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 // JUL 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-07: COLIFORMS AND YEAST & MOLD // JUL 21, 2022

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

ANALYTE	LIMIT	AMT (CFU/g)	LOD/LOQ (CFU/g)	PASS/FAIL
YEAST & MOLD	100000 CFU/g	20000	1000/1000	PASS

CL-06: HEAVY METAL ANALYSIS BY ICP-MS // JUL 19, 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		5.977	0.138/0.296	N/A

ANALYTE	LIMIT	AMT (ppm)	LOD/LOQ (ppm)	PASS/FAIL
LEAD	1 µg/g	ND	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 // JUL 19, 2022

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.5818	PASS

CL-10: FOREIGN MATTER ANALYSIS // JUL 18, 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

FOREIGN MATTER IMAGES

