

## CERTIFICATE OF ANALYSIS

PRODUCED: APR 22, 2022

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



**BATCH NO.:** 1A40503000252ED000000081  
**METRC TAG:** 1A40503000252ED000000084  
**MATRIX:** FLOWER  
**CATEGORY:** INHALABLE  
**SAMPLE ID:** CL-290322-007  
**COLLECTED ON:** MAR 29, 2022  
**RECEIVED ON:** MAR 29, 2022  
**BATCH/SAMPLE SIZE:** 14841 G / 74.0 G  
**RECEIVED BY:** KEVIN WALKER

### CANNABINOID OVERVIEW

<b>TOTAL THC:</b>	<b>31.84 %</b>
<b>TOTAL CBD:</b>	<b>0.17 %</b>
<b>TOTAL CANNABINOIDS:</b>	<b>37.08 %</b>

### 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

<b>POTENCY</b>	TESTED	<b>PESTICIDES</b>	PASS
<b>FOREIGN</b>	PASS	<b>TERPENES</b>	TESTED
<b>METALS</b>	PASS	<b>WATER</b>	PASS
<b>MICROBIAL</b>	PASS		

### CL-01: CANNABINOID POTENCY BY HPLC-PDA // MAR 31, 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	0.122 %		0.038/0.13	N/A	Δ <sup>8</sup> -THC		ND	0.044/0.15	N/A
CBDA	0.052 %		0.02/0.068	N/A	Δ <sup>9</sup> -THC		ND	0.043/0.14	N/A
CBDV		ND	0.035/0.12	N/A	THCA	36.308 %		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	<b>TOTAL THC **</b>		31.842 %		N/A
CBGA	0.601 %		0.021/0.07	N/A	<b>TOTAL CBD **</b>		0.168 %		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 // APR 20, 2022

ANALYTE	AMT	LOD/LOQ (ppm)	PASS/FAIL	ANALYTE	AMT	LOD/LOQ (ppm)	PASS/FAIL
<b>TOTAL TERPENES</b>	0.434 %		N/A	<b>GERANIOL</b>	0.008 %	0.076/0.252	N/A
LIMONENE	0.113 %	0.035/0.118	N/A	α-BISABOLOL	0.004 %	0.884/2.948	N/A
β-PINENE	0.061 %	0.019/0.062	N/A	TERPINOLENE	0.003 %	0.053/0.177	N/A
CIS-β-OCIMENE	0.052 %	0.022/0.074	N/A	ISOPULEGOL	0.002 %	0.213/0.708	N/A
β-MYRCENE	0.050 %	0.042/0.139	N/A	Δ <sup>3</sup> -CARENE	0.001 %	0.027/0.089	N/A
α-PINENE	0.040 %	0.017/0.057	N/A	α-TERPINENE	0.001 %	0.03/0.102	N/A
CIS-NEROLIDOL	0.033 %	0.323/1.076	N/A	γ-TERPINENE	ND	0.021/0.071	N/A
TRANS-CARYOPHYLLENE	0.027 %	0.267/0.889	N/A	GUAIOL	ND	0.238/0.795	N/A
LINALOOL	0.020 %	0.076/0.252	N/A	CARYOPHYLLENE OXIDE	ND	0.267/0.889	N/A
CAMPHERE	0.010 %	0.03/0.101	N/A	EUCALYPTOL	ND	0.071/0.236	N/A
TRANS-NEROLIDOL	0.009 %	0.313/1.045	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  
 APR 22, 2022

CL-04: PESTICIDE ANALYSIS BY LC-MS/MS // MAR 31, 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

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## CL-07: E. COLI AND SALMONELLA BY QPCR // MAR 30, 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 // MAR 30, 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 // APR 01, 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	ND	1000/1000	PASS

## CL-06: HEAVY METAL ANALYSIS BY ICP-MS // MAR 30, 2022

ANALYTE	LIMIT	AMT (ppm)	LOD/LOQ (ppm)	PASS/FAIL
ARSENIC	0.4 µg/g	< LOQ	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

ANALYTE	LIMIT	AMT (ppm)	LOD/LOQ (ppm)	PASS/FAIL
LEAD	1 µg/g	0.008	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 // MAR 31, 2022

ANALYTE	LIMIT	AMT (Aw)	PASS/FAIL
WATER ACTIVITY	0.65 Aw	0.5287	PASS

## CL-10: FOREIGN MATTER ANALYSIS // MAR 29, 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



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