Regulatory Compliance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 07/11/2024 | OVERALL BATCH RESULT: PASS

SAMPLE NAME: Z x Georgia Pie
Flower, Inhalable

CULTIVATOR / MANUFACTURER
Business Name: 3 Tall Pines, LLC.

License Number: Address:

SAMPLE DETAIL

Batch Number:
Sample ID: 240708M028
Source Metrc UID:

DISTRIBUTOR
Business Name:
License Number:
Address:

Date Collected: 7/09/2024
Date Received: 7/10/2024
Batch Size: 12246.99 grams
Sample Size: 43.5 grams Unit
Mass: Serving Size:

Sampling Method: QSP 1265 - Sampling of Cannabis and Product Batches

CANNABINOID ANALYSIS - SUMMARY

CALCULATED USING DRY-WEIGHT

Sum of Cannabinoids: **30.3225%**

Total Cannabinoids: **28.7365%**

Total THC: **26.6171%**

Total CBD: **0.1501%**

Sum of Cannabinoids = Δ^9-THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8-THC + CBL + CBN
Total Cannabinoids = (Δ^9-THC+0.877*THCa+Δ^8-THC) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + CBL + CBN
Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:
Total THC = Δ^9-THC + (THCa (0.877)) + Δ^8-THC
Total CBD = CBD + (CBDa (0.877))

Moisture: 10.5%

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: **1.5717%**

β-Caryophyllene 5.626 mg/g | Limonene 2.597 mg/g | α-Humulene 1.708 mg/g

SAFETY ANALYSIS - SUMMARY

Pesticides: **PASS**
Mycotoxins: **PASS**
Heavy Metals: **PASS**
Microbiology: **PASS**
Foreign Material: **PASS**
Water Activity: **PASS**

These results relate only to the sample included on this report.
This report shall not be reproduced, except in full, without written approval of the laboratory.

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

All LQC samples were performed and met the prescribed acceptance criteria in 4 CCR section 15730, as attested by:
Michael Pham
Job Title: Senior Laboratory Analyst
Date: 07/11/2024

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 07/11/2024

CANNABINOID TEST RESULTS - 07/11/2024

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD). Calculated using Dry-Weight. **Method:** QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL CANNABINOIDS: **28.7365%**
Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + CBL + CBN

TOTAL THC: **26.6171%**
Total THC (Δ^9-THC+0.877*THCa+Δ^8-THC)

TOTAL CBD: **0.1501%**
Total CBD (CBD+0.877*CBDa)

TOTAL CBG: 1.4963%
Total CBG (CBG+0.877*CBGa)

TOTAL THCV: 0.1317%
Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 0.3413%
Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: ND
Total CBDV (CBDV+0.877*CBDVa)

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
THCa	*0.062 / 0.250*	*±5.1269*	**277.130**	**27.7130**
Δ^9-THC	*0.047 / 0.250*	*±0.4348*	**2.128**	**.2128**
CBGa	*0.040 / 0.250*	*±0.4336*	**15.431**	**1.5431**
CBCa	*0.199 / 0.500*	*±0.1545*	**3.892**	**0.3892**
CBDa	*0.031 / 0.250*	*±0.0312*	**1.712**	**0.1712**
THCVa	*0.040 / 0.250*	*±0.0135*	**1.502**	**0.1502**
CBG	*0.037 / 0.250*	*±0.0186*	**1.430**	**0.1430**
Δ^8-THC	*0.075 / 0.250*	*N/A*	**ND**	**ND**
THCV	*0.052 / 0.250*	*N/A*	**ND**	**ND**
CBD	*0.062 / 0.250*	*N/A*	**ND**	**ND**
CBDV	*0.044 / 0.250*	*N/A*	**ND**	**ND**
CBDVa	*0.017 / 0.250*	*N/A*	**ND**	**ND**
CBL	*0.126 / 0.382*	*N/A*	**ND**	**ND**
CBN	*0.033 / 0.250*	*N/A*	**ND**	**ND**
CBC	*0.072 / 0.250*	*N/A*	**ND**	**ND**
SUM OF CANNABINOIDS			**303.225 mg/g**	**30.3225%**

MOISTURE TEST RESULT

10.5%
Tested 07/10/2024
Method: QSP 1224 - Loss on Drying (Moisture)

TERPENOID TEST RESULTS - 07/11/2024

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID). **Method:** QSP 1192 - Analysis of Terpenoids by GC-FID

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β-Caryophyllene	*0.004 / 0.013*	*±0.3027*	**5.626**	**0.5626**
Limonene	*0.005 / 0.016*	*±0.0847*	**2.597**	**0.2597**
α-Humulene	*0.009 / 0.031*	*±0.0919*	**1.708**	**0.1708**
Linalool	*0.009 / 0.030*	*±0.0495*	**1.259**	**0.1259**
Guaiol	*0.011 / 0.035*	*±0.0407*	**0.749**	**0.0749**
trans-β-Farnesene	*0.008 / 0.028*	*±0.0371*	**0.651**	**0.0651**
Myrcene	*0.007 / 0.025*	*±0.0195*	**0.550**	**0.0550**

TERPENOID TEST RESULTS - 07/11/2024 *continued*

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β-Pinene	*0.004 / 0.015*	*±0.0142*	**0.440**	**0.0440**
α-Bisabolol	*0.008 / 0.026*	*±0.0158*	**0.368**	**0.0368**
Terpineol	*0.008 / 0.025*	*±0.0192*	**0.313**	**0.0313**
α-Pinene	*0.005 / 0.015*	*±0.0097*	**0.271**	**0.0271**
Fenchol	*0.009 / 0.029*	*±0.0085*	**0.231**	**0.0231**
Terpinolene	*0.008 / 0.027*	*±0.0028*	**0.184**	**0.0184**
Caryophyllene Oxide	*0.011 / 0.038*	*±0.0104*	**0.175**	**0.0175**
Nerolidol	*0.006 / 0.020*	*±0.0138*	**0.174**	**0.0174**
Valencene	*0.010 / 0.033*	*±0.0075*	**0.145**	**0.0145**
Camphene	*0.004 / 0.014*	*±0.0021*	**0.065**	**0.0065**
Borneol	*0.004 / 0.014*	*±0.0027*	**0.058**	**0.0058**
β-Ocimene	*0.005 / 0.018*	*±0.0020*	**0.052**	**0.0052**
Geranyl Acetate	*0.004 / 0.012*	*±0.0021*	**0.039**	**0.0039**
Geraniol	*0.002 / 0.007*	*±0.0015*	**0.028**	**0.0028**
γ -Terpinene	*0.005 / 0.018*	*±0.0005*	**0.019**	**0.0019**
Citronellol	*0.003 / 0.010*	*±0.0004*	**0.015**	**0.0015**
α-Phellandrene	*0.006 / 0.019*	*N/A*	**<LOQ**	**<LOQ**
Δ^3-Carene	*0.005 / 0.018*	*N/A*	**<LOQ**	**<LOQ**
α-Terpinene	*0.006 / 0.019*	*N/A*	**<LOQ**	**<LOQ**
Eucalyptol	*0.005 / 0.018*	*N/A*	**<LOQ**	**<LOQ**
Sabinene Hydrate	*0.007 / 0.022*	*N/A*	**<LOQ**	**<LOQ**
Fenchone	*0.008 / 0.026*	*N/A*	**<LOQ**	**<LOQ**
Nerol	*0.003 / 0.011*	*N/A*	**<LOQ**	**<LOQ**
Sabinene	*0.004 / 0.014*	*N/A*	**ND**	**ND**
p-Cymene	*0.005 / 0.015*	*N/A*	**ND**	**ND**
Isopulegol	*0.004 / 0.013*	*N/A*	**ND**	**ND**
Camphor	*0.005 / 0.015*	*N/A*	**ND**	**ND**
Isoborneol	*0.003 / 0.011*	*N/A*	**ND**	**ND**
Menthol	*0.008 / 0.025*	*N/A*	**ND**	**ND**
Pulegone	*0.003 / 0.010*	*N/A*	**ND**	**ND**
α-Cedrene	*0.005 / 0.017*	*N/A*	**ND**	**ND**
Cedrol	*0.009 / 0.032*	*N/A*	**ND**	**ND**
TOTAL TERPENOIDS				**15.717 mg/g**	**1.5717%**

CATEGORY 1 PESTICIDE TEST RESULTS - 07/11/2024 PASS

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). *GC-MS utilized where indicated. **Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Aldicarb	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Carbofuran	0.02 / 0.05	≥ LOD	N/A	ND	PASS
Chlordane*	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Chlorfenapyr*	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Chlorpyrifos	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Coumaphos	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Daminozide	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Dichlorvos (DDVP)	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Dimethoate	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Ethoprophos	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Fenoxycarb	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Fipronil	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Imazalil	0.02 / 0.06	≥ LOD	N/A	ND	PASS
Methiocarb	0.02 / 0.07	≥ LOD	N/A	ND	PASS
Parathion-methyl	0.03 / 0.10	≥ LOD	N/A	ND	PASS
Mevinphos	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Paclobutrazol	0.02 / 0.05	≥ LOD	N/A	ND	PASS
Propoxur	0.03 / 0.09	≥ LOD	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	≥ LOD	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	≥ LOD	N/A	ND	PASS

CATEGORY 2 PESTICIDE TEST RESULTS - 07/11/2024 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Abamectin	0.03 / 0.10	0.1	N/A	ND	PASS
Acephate	0.02 / 0.07	0.1	N/A	ND	PASS
Acequinocyl	0.02 / 0.07	0.1	N/A	ND	PASS
Acetamiprid	0.02 / 0.05	0.1	N/A	ND	PASS
Azoxystrobin	0.02 / 0.07	0.1	N/A	ND	PASS
Bifenazate	0.01 / 0.04	0.1	N/A	ND	PASS
Bifenthrin	0.02 / 0.05	3	N/A	ND	PASS
Boscalid	0.03 / 0.09	0.1	N/A	ND	PASS
Captan	0.19 / 0.57	0.7	N/A	ND	PASS
Carbaryl	0.02 / 0.06	0.5	N/A	ND	PASS
Chlorantranilip-role	0.04 / 0.12	10	N/A	ND	PASS
Clofentezine	0.03 / 0.09	0.1	N/A	ND	PASS

CATEGORY 2 PESTICIDE TEST RESULTS - 07/11/2024 *continued*

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Cyfluthrin	0.12 / 0.38	2	N/A	ND	PASS
Cypermethrin	0.11 / 0.32	1	N/A	ND	PASS
Diazinon	0.02 / 0.05	0.1	N/A	ND	PASS
Dimethomorph	0.03 / 0.09	2	N/A	ND	PASS
Etoxazole	0.02 / 0.06	0.1	N/A	ND	PASS
Fenhexamid	0.03 / 0.09	0.1	N/A	ND	PASS
Fenpyroximate	0.02 / 0.06	0.1	N/A	ND	PASS
Flonicamid	0.03 / 0.10	0.1	N/A	ND	PASS
Fludioxonil	0.03 / 0.10	0.1	N/A	ND	PASS
Hexythiazox	0.02 / 0.07	0.1	N/A	ND	PASS
Imidacloprid	0.04 / 0.11	5	N/A	ND	PASS
Kresoxim-methyl	0.02 / 0.07	0.1	N/A	ND	PASS
Malathion	0.03 / 0.09	0.5	N/A	ND	PASS
Metalaxyl	0.02 / 0.07	2	N/A	ND	PASS
Methomyl	0.03 / 0.10	1	N/A	ND	PASS
Myclobutanil	0.03 / 0.09	0.1	N/A	ND	PASS
Naled	0.02 / 0.07	0.1	N/A	ND	PASS
Oxamyl	0.04 / 0.11	0.5	N/A	ND	PASS
Pentachloronitro-benzene*	0.03 / 0.09	0.1	N/A	ND	PASS
Permethrin	0.04 / 0.12	0.5	N/A	ND	PASS
Phosmet	0.03 / 0.10	0.1	N/A	ND	PASS
Piperonyl Butoxide	0.02 / 0.07	3	N/A	ND	PASS
Prallethrin	0.03 / 0.08	0.1	N/A	ND	PASS
Propiconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Pyrethrins	0.04 / 0.12	0.5	N/A	ND	PASS
Pyridaben	0.02 / 0.07	0.1	N/A	ND	PASS
Spinetoram	0.02 / 0.07	0.1	N/A	ND	PASS
Spinosad	0.02 / 0.07	0.1	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	0.1	N/A	ND	PASS
Spirotetramat	0.02 / 0.06	0.1	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Thiamethoxam	0.03 / 0.10	5	N/A	ND	PASS
Trifloxystrobin	0.03 / 0.08	0.1	N/A	ND	PASS

MYCOTOXIN TEST RESULTS - 07/11/2024 PASS

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS). **Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	2.0 / 6.0		N/A	ND	
Aflatoxin B2	1.8 / 5.6		N/A	ND	
Aflatoxin G1	1.0 / 3.1		N/A	ND	
Aflatoxin G2	1.2 / 3.5		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS

HEAVY METALS TEST RESULTS - 07/10/2024 PASS

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS). **Method:** QSP 1160 - Analysis of Heavy Metals by ICP-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Arsenic	0.02 / 0.1	0.2	N/A	<LOQ	PASS
Cadmium	0.02 / 0.05	0.2	N/A	<LOQ	PASS
Lead	0.04 / 0.1	0.5	N/A	<LOQ	PASS
Mercury	0.002 / 0.01	0.1	N/A	<LOQ	PASS

MICROBIOLOGY TEST RESULTS - 07/11/2024 PASS

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants. **Method:** QSP 1221 - Analysis of Microbiological Contaminants

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing *Escherichia coli*	Not Detected in 1g	ND	PASS
Salmonella spp.	Not Detected in 1g	ND	PASS
Aspergillus fumigatus	Not Detected in 1g	ND	PASS
Aspergillus flavus	Not Detected in 1g	ND	PASS
Aspergillus niger	Not Detected in 1g	ND	PASS
Aspergillus terreus	Not Detected in 1g	ND	PASS

FOREIGN MATERIAL TEST RESULTS - 07/09/2024 PASS

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta. **Method:** QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

COMPOUND	ACTION LIMIT	RESULT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	None	PASS
Total Sample Area Covered by Mold	>25%	None	PASS
Total Sample Area Covered by an Imbedded Foreign Material	>25%	None	PASS
Insect Fragment Count	> 1 per 3 grams	0.0	PASS
Hair Count	> 1 per 3 grams	0.0	PASS
Mammalian Excreta Count	> 1 per 3 grams	0.0	PASS

WATER ACTIVITY TEST RESULTS - 07/10/2024 PASS

Method: QSP 1227 - Analysis of Water Activity in Cannabis and Cannabis Products

COMPOUND	LOD/LOQ (Aw)	ACTION LIMIT (Aw)	MEASUREMENT UNCERTAINTY (Aw)	RESULT (Aw)	RESULT
Water Activity	0.030 / 0.15	0.65	±0.004	0.51	PASS