
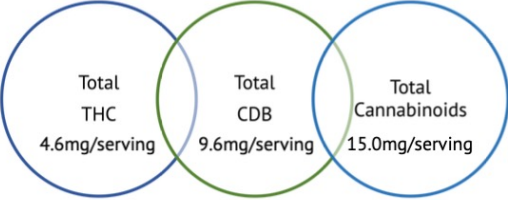


Order Information	Batch Information
Sample Name: Blue Raspberry	Batch ID: 20240124
Sample Type: Edible	Sample ID: 20240124.1.001
Date Collected: 1/24/2024	Lot No.: PBID-GC240106GBRSG
Report Type: Compliance	Lot Size: 1256 units
Company Info: Glenna & Co., Rush, NY 14543 (OCM-AUCP-22-000014)	





Heavy Metals

Pass

Pesticides

Pass

Microbes

Pass

Solvents

Pass

Mycotoxins

Pass

Water Activity

Pass

Terpenes

Pass

Moisture

Not Tested

Homogeneity

Pass

OCM Permit No. - OCM-CPL-2022-00012

Brandy Young Gamana

MANAGED BY: Brandy Young, PhD (Lab Director)

2/6/24

Testing results are based solely upon the sample submitted to the lab and in the condition it was received. Certainty Analytical Labs, Corp. warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices, as determined by the New York Office of Cannabis Management (Cannabis Laboratory Quality System Standard - New York State, Office of Cannabis Management, 2023). Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials.


<https://glennas.com/coa-finder/>




<https://glennas.com/wp-content/uploads/2024/01/PBID-GC240106GBRSG.pdf>



Certainty
License #: ocmpll-2023-000012



Certificate of Analysis
Final



Date Released: 2/5/2024 4:14:06PM
Report #: 10314
20240124.1.001

Sample #: 3710, Weight: 80.00g, Unit Count:
Order #: X240124-0005
Category/Type: Ingestible, Edibles
Date Collected: 1/24/2024 8:01:13PM
Date Received: 1/24/2024 8:05:32PM
Regulator Sample ID: PBID-GC240106GBRSG
Regulator Source Package ID: PBID-GC240106GBRSG
Regulator Batch ID: PBID-GC240106GBRSG
Size: Not Provided, Unit Count:

Total Cannabinoids
14.99 mg/svg
5.999 mg/g

Total THC
4.574 mg/svg
1.830 mg/g

Total CBD
9.599 mg/svg
3.840 mg/g

Total Terpenes
0.0 %

Heavy Metals
PASS

Microbials
PASS

Residual Solvents
PASS

Pesticides
PASS

Mycotoxins
PASS

Water Activity
PASS

Potency Analysis by HPLC

Total Cannabinoids: **14.99 mg/svg - 5.999 mg/g**
Total THC: **4.574 mg/svg - 1.830 mg/g**
Total CBD: **9.599 mg/svg - 3.840 mg/g**


Compound	CAS#	LOQ (mg/svg)	mg/svg	mg/g	Relative Concentration
CBD	13956-29-1	0.01000	9.599	3.840	
d9-THC	1972-08-3	0.01000	4.574	1.830	
CBG	25654-31-3	0.01000	0.3807	0.1523	
CBC	20675-51-8	0.01000	0.3398	0.1359	
CBN	521-35-7	0.01000	0.06253	0.02501	
CBDV	24274-48-4	0.01000	0.03862	0.01545	
THCa	23978-85-0	0.01000	ND	ND	
d8-THC	5957-76-5	0.01000	ND	ND	
d10-THC	95543-62-7	0.01000	ND	ND	
THCV	31262-37-0	0.01000	ND	ND	
CBDa	1244-58-2	0.01000	ND	ND	
CBGa	25555-57-1	0.01000	ND	ND	

Test Comment: Cannabinoids analyzed by HPLC using P-NY100. The reported result is based on a sample weight using moisture content for flower samples unless moisture is listed as zero or ND. Unless otherwise stated all GC passed.
d8-THC is an abbreviation for delta-8 tetrahydrocannabinol. d9-THC is an abbreviation for delta-9 tetrahydrocannabinol.

Date Completed: 02/05/2024 4:08PM


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Permit #: OCM-CPL-2022-00007

Kelly Greenland
Dr. Kelly Greenland, Lab Director




Page 1 of 8 Report Date: 02/05/2024 4:17:12PM

Certainty
License #: ocmpll-2023-000012



Certificate of Analysis
Final



Sample #: 3710 **20240124.1.001**


Date Completed: 01/29/2024 1:52PM

Terpenes by HS-GC-MS

Compound	CAS#	LOQ (%)	%	Relative Concentration
Beta-myrcene	123-35-3	0.1000	ND	
Beta-caryophyllene	87-44-5	0.1000	ND	
Limonene	5989-27-5	0.1000	ND	
Alpha-pinene	80-56-8	0.1000	ND	
Alpha-humulene	6753-98-6	0.1000	ND	
Linalool	78-70-6	0.1000	ND	
Beta-pinene	127-91-3	0.1000	ND	
Terpinolene	586-62-9	0.1000	ND	
Borneol	464-45-9	0.1000	ND	
Ocimene	13877-91-3	0.1000	ND	
Alpha-bisabolol	515-69-5	0.1000	ND	
Caryophyllene-oxide	1139-30-6	0.1000	ND	
Geraniol	106-24-1	0.1000	ND	
Camphene	79-92-5	0.1000	ND	
Guaiol	489-86-1	0.1000	ND	
Alpha-terpinene	99-86-5	0.1000	ND	
Terpineol	8006-39-1	0.1000	ND	
Fenchol	14575-74-7	0.1000	ND	
Valencene	4630-07-3	0.1000	ND	
Alpha-phellandrene	99-83-2	0.1000	ND	
Farnesene	502-61-4	0.1000	ND	
Camphor	464-49-3	0.1000	ND	


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Kelly Greenland
Dr. Kelly Greenland, Lab Director




Page 2 of 8 Report Date: 02/05/2024 4:17:12PM



Certainty
License #: ocmpl-2023-000012

Certificate of Analysis
Final



Sample #: 3710 **20240124.1.001**

Compound	CAS#	LOQ	%	Relative Concentration
		(µg/g)	(%)	
3-Carene	13466-78-9	0.1000	ND	
Alpha-cedrene	469-61-4	0.1000	ND	
Cedrol	77-53-2	0.1000	ND	
Eucalyptol	470-82-6	0.1000	ND	
Fenchone	1195-79-5	0.1000	ND	
Gamma-terpinene	99-85-4	0.1000	ND	
Geranyl Acetate	105-87-3	0.1000	ND	
Isopulegol	89-79-2	0.1000	ND	
Menthol	15356-70-4	0.1000	ND	
Nerol	106-25-2	0.1000	ND	
Nerolidol		0.1000	ND	
Pulegone	89-82-7	0.1000	ND	
Sabinene	3387-41-5	0.1000	ND	
Sabinene Hydrate	546-79-2	0.1000	ND	

Test Comment: Terpenes tested by GCMS using P-NY210. Unless otherwise stated, all QC passed.

Water Activity Pass

Compound	LOQ (Aw)	Limits (Aw)	Result (Aw)	Status
Water Activity	0.05	0.85	0.40	Pass

Comment: Physical chemistry was tested using moisture analyzer, water activity meter using P-NY 160. Unless otherwise stated, all QC passed.

Analysis Date: 01/29/2024 8:41 am


Pesticides by LCMSMS Pass

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Abaractin	0.0100	0.500	ND	Pass
Acephate	0.0100	0.400	ND	Pass
Acequinocyl	0.0100	2.00	ND	Pass
Acetamiprid	0.0100	0.200	ND	Pass


Analysis Date: 01/26/2024 11:13 am

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Dr. Kelly Greenland, Lab Director




Page 3 of 8 Report Date: 02/05/2024 4:17:12PM



Certainty
License #: ocmpl-2023-000012

Certificate of Analysis
Final



Sample #: 3710 **20240124.1.001**


Pesticides by LCMSMS Pass

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Aldicarb	0.0100	0.400	ND	Pass
Azadirachtin	0.0100	1.00	ND	Pass
Azoxystrobin	0.0100	0.200	ND	Pass
Bifenazate	0.0100	0.200	ND	Pass
Bifenthrin	0.0100	0.200	ND	Pass
Boscalid	0.0100	0.400	ND	Pass
Captan	0.0100	1.00	ND	Pass
Carbaryl	0.0100	0.200	ND	Pass
Carbofuran	0.0100	0.200	ND	Pass
Chlorantranilprole	0.0100	0.200	ND	Pass
Chlordane-alpha	0.0100	1.00	ND	Pass
Chlorfenapyr	0.0100	1.00	ND	Pass
Chloromequat Chloride	0.0100	1.00	ND	Pass
Chlorpyrifos	0.0100	0.200	ND	Pass
Clofentezine	0.0100	0.200	ND	Pass
Coumaphos	0.0100	1.00	ND	Pass
Cyfluthrin	0.0100	1.00	ND	Pass
Cypermethrin	0.0100	1.00	ND	Pass
Daminozide	0.0100	1.00	ND	Pass
Diazinon	0.0100	0.200	ND	Pass
Dichlorvos	0.0100	1.00	ND	Pass
Dimethoate	0.0100	0.200	ND	Pass
Dimethomorph	0.0100	1.00	ND	Pass
Ethoprophos	0.0100	0.200	ND	Pass
Etofenprox	0.0100	0.400	ND	Pass
Etoazole	0.0100	0.200	ND	Pass


Analysis Date: 01/26/2024 11:13 am

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Dr. Kelly Greenland, Lab Director




Page 4 of 8 Report Date: 02/05/2024 4:17:12PM



Certainty
License #: ocmpl-2023-000012

Certificate of Analysis
Final



Sample #: 3710 **20240124.1.001**

Pesticides by LCMSMS


Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Fenhexamid	0.0100	1.00	ND	Pass
Fenoxycarb	0.0100	0.200	ND	Pass
Fenpyroximate	0.0100	0.400	ND	Pass
Flpronil	0.0100	0.400	ND	Pass
Flonicamid	0.0100	1.00	ND	Pass
Fludioxonil	0.0100	0.400	ND	Pass
Hexythiazox	0.0100	1.00	ND	Pass
Imazalil	0.0100	0.200	ND	Pass
Imidacloprid	0.0100	0.400	ND	Pass
Indolebutyric Acid	0.0100	1.00	ND	Pass
Kresoxim-methyl	0.0100	0.400	ND	Pass
Malathion	0.0100	0.200	ND	Pass
Metalaxyl	0.0100	0.200	ND	Pass
Methiocarb	0.0100	0.200	ND	Pass
Methomyl	0.0100	0.400	ND	Pass
Methyl Parathion	0.0100	0.200	ND	Pass
Mevinphos	0.0100	1.00	ND	Pass
MGK-264	0.0100	0.200	ND	Pass
Myclobutanil	0.0100	0.200	ND	Pass
Naled	0.0100	0.500	ND	Pass
Oxamyl	0.0100	1.00	ND	Pass
Paclbutrazol	0.0100	0.400	ND	Pass
Pentachloronitrobenzene	0.0100	1.00	ND	Pass
Permethrins, Total	0.0100	0.200	ND	Pass
Phosmet	0.0100	0.200	ND	Pass
Piperonyl Butoxide	0.0100	2.00	ND	Pass

Pass


Analysis Date: 01/26/2024 11:13 am

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Dr. Kelly Greenland, Lab Director




Page 5 of 8 Report Date: 02/05/2024 4:17:12PA



Certainty
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Certificate of Analysis
Final



Sample #: 3710 **20240124.1.001**

Pesticides by LCMSMS

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Prallethrin	0.0100	0.200	ND	Pass
Propiconazole	0.0100	0.400	ND	Pass
Propoxur	0.0100	0.200	ND	Pass
Pyrethrins Total	0.0100	1.00	ND	Pass
Pyridaben	0.0100	0.200	ND	Pass
Spinetoram Total	0.0100	1.00	ND	Pass
Spinosad Total	0.0100	0.200	ND	Pass
Spiromesifen	0.0100	0.200	ND	Pass
Spirotetramat	0.0100	0.200	ND	Pass
Spiroxamine	0.0100	0.200	ND	Pass
Tebuconazole	0.0100	0.400	ND	Pass
Thiacloprid	0.0100	0.200	ND	Pass
Thiamethoxam	0.0100	0.200	ND	Pass
Trifloxystrobin	0.0100	0.200	ND	Pass

Pass

Analysis Date: 01/26/2024 11:13 am

Comment: Pesticides tested by LCMSMS by using P-NY150. Unless otherwise stated, all QC passed.

Residual Solvents by HS-GC-MS


Compound	LOQ (ppm)	Limits (ppm)	Result (ppm)	Status
1,2-Dichloroethane	0.0500	5.00	ND	Pass
Acetone	50.00	5000	ND	Pass
Acetonitrile	50.00	410	ND	Pass
Benzene	0.5000	2.00	ND	Pass
Butanes Total	25.00	5000	ND	Pass
Chloroform	0.5000	60.0	ND	Pass
Dimethyl Sulfoxide (DMSO)	50.00	5000	ND	Pass
Ethanol	50.00	5000	ND	Pass

Pass


Analysis Date: 01/29/2024 9:48 am

This product has been tested by KST using valid testing methodologies and a quality management system required by law. Values reported relate only to the product tested. KST makes no claim as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compound reported herein.


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Dr. Kelly Greenland, Lab Director




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Certainty
License #: ocmpl-2023-000012

Certificate of Analysis
Final



Sample #: 3710 **20240124.1.001**

Residual Solvents by HS-GC-MS **Pass**

Analysis Date: 01/29/2024 9:48 am

Compound	LOQ (ppm)	Limits (ppm)	Result (ppm)	Status
Ethyl acetate	50.00	5000	ND	Pass
Ethyl ether	50.00	5000	ND	Pass
Heptane	50.00	5000	ND	Pass
Hexanes Total	10.00	290	ND	Pass
Isopropanol	50.00	5000	ND	Pass
Methanol	50.00	3000	ND	Pass
Methylene chloride	50.00	600	ND	Pass
Pentanes Total	16.70	5000	ND	Pass
Propane	50.00	5000	ND	Pass
Toluene	50.00	890	ND	Pass
Total xylenes	25.00	2170	ND	Pass
Trichloroethane (1,1,1-)	50.00	1500	ND	Pass

Comment: Residual Solvents tested by GCMS using P-NY170. Unless otherwise stated, all QC passed. *TIC* stands for Tentatively Identified Compound but not quantified.

Pass

Mycotoxins by LCMSMS **Pass**

Analysis Date: 01/26/2024 11:13 am

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Aflatoxin B1	0.0050	0.020	ND	Pass
Aflatoxin B2	0.0050	0.020	ND	Pass
Aflatoxin G1	0.0050	0.020	ND	Pass
Aflatoxin G2	0.0050	0.020	ND	Pass
Ochratoxin A	0.0050	0.020	ND	Pass
Total Aflatoxin	0.0050	0.020	ND	Pass

Comment: Mycotoxin contamination tested by LCMSMS using P-NY125. Unless otherwise stated, all QC passed.

Pass

Heavy Metals by ICPMS **Pass**

Analysis Date: 01/29/2024 3:54 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony	0.0100	120	ND	Pass
Arsenic	0.00100	1.50	0.00329	Pass
Cadmium	0.00150	0.500	ND	Pass
Chromium	0.280	1100	ND	Pass
Copper	0.0750	300	ND	Pass
Lead	0.00250	0.500	0.0175	Pass
Mercury	0.000500	3.00	ND	Pass
Nickel	0.0100	20.0	ND	Pass

Comment: Heavy Metal contamination tested by ICPMS using P-NY140. Unless otherwise stated, all QC passed.

Pass

Micro by Petri & qPCR **Pass**

Analysis Date: 01/29/2024 9:39 am


Compound	LOQ (CFU/g)	Limits (CFU/g)	Result (CFU/g)	Status
Aspergillus flavus Qualitative	1	0	Not Detected	Pass
Aspergillus fumigatus Qualitative	1	0	Not Detected	Pass
Aspergillus niger Qualitative	1	0	Not Detected	Pass
Aspergillus terreus Qualitative	1	0	Not Detected	Pass
Salmonella Qualitative	1	0	Not Detected	Pass
Shiga Toxin-Producing E. coli Qualitative	1	0	Not Detected	Pass
Total Aerobic Bacteria	10	10000	<LOQ	Pass
Total Yeast & Mold	10		<LOQ	Pass

Comment: Microbial contamination tested by Petrifilm plates and qPCR using P-NY120. Unless otherwise stated, all QC passed. Due to COA validation limitations "Not Detected" = "Absent" and "Detected" = "Presumptive Presence". Acceptance Limits: "0" = "Absence" and "1" = "Presence".


Pass

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Dr. Kelly Greenland, Lab Director




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Page 7 of 8 Report Date: 02/05/2024 4:17:12PM



Certainty
License #: ocmpl-2023-000012

Certificate of Analysis
Final



Sample #: 3710 **20240124.1.001**

Heavy Metals by ICPMS **Pass**

Analysis Date: 01/29/2024 3:54 pm

Compound	LOQ (µg/g)	Limits (µg/g)	Result (µg/g)	Status
Antimony	0.0100	120	ND	Pass
Arsenic	0.00100	1.50	0.00329	Pass
Cadmium	0.00150	0.500	ND	Pass
Chromium	0.280	1100	ND	Pass
Copper	0.0750	300	ND	Pass
Lead	0.00250	0.500	0.0175	Pass
Mercury	0.000500	3.00	ND	Pass
Nickel	0.0100	20.0	ND	Pass

Comment: Heavy Metal contamination tested by ICPMS using P-NY140. Unless otherwise stated, all QC passed.

Pass

Micro by Petri & qPCR **Pass**

Analysis Date: 01/29/2024 9:39 am


Compound	LOQ (CFU/g)	Limits (CFU/g)	Result (CFU/g)	Status
Aspergillus flavus Qualitative	1	0	Not Detected	Pass
Aspergillus fumigatus Qualitative	1	0	Not Detected	Pass
Aspergillus niger Qualitative	1	0	Not Detected	Pass
Aspergillus terreus Qualitative	1	0	Not Detected	Pass
Salmonella Qualitative	1	0	Not Detected	Pass
Shiga Toxin-Producing E. coli Qualitative	1	0	Not Detected	Pass
Total Aerobic Bacteria	10	10000	<LOQ	Pass
Total Yeast & Mold	10		<LOQ	Pass

Comment: Microbial contamination tested by Petrifilm plates and qPCR using P-NY120. Unless otherwise stated, all QC passed. Due to COA validation limitations "Not Detected" = "Absent" and "Detected" = "Presumptive Presence". Acceptance Limits: "0" = "Absence" and "1" = "Presence".


Pass

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Dr. Kelly Greenland, Lab Director



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Page 8 of 8 Report Date: 02/05/2024 4:17:12PM

Edible Homogeneity Report

Client Information:	Sample Information:
Certainty Analytical Labs	20240124.1.001
brandy.young@certainsciences.com	Sampled Received: 1/24/2024
585-237-8497	Report Created: 1/31/2023
	Report Expires: 1/31/2024

Strain Name

Average Sample Mass (mg):	3	Listed THC Concentration Per Serving (mg):	5
---------------------------	---	--	---

Potency Concentration (mg/serving)								
Cannabinoid	LOQ (%)	Run 1	Run 2	Run 3	Run 4	Run 5	Average	Pass/Fail
CBDV	0.001	0.047	0.047	0.052	0.046	0.054	0.049	In Range
CBDa	0.001	0.000	0.000	0.000	0.000	0.000	0.000	In Range
CBGa	0.001	0.000	0.000	0.000	0.000	0.000	0.000	In Range
CBG	0.001	0.461	0.456	0.449	0.454	0.452	0.454	In Range
CBD	0.001	11.692	11.505	11.331	11.364	11.515	11.481	In Range
THCV	0.001	0.000	0.000	0.000	0.000	0.000	0.000	In Range
CBN	0.001	0.078	0.076	0.075	0.074	0.076	0.076	In Range
d9-THC	0.001	5.810	5.605	5.569	5.477	5.534	5.599	In Range
d8-THC	0.001	0.000	0.000	0.000	0.000	0.000	0.000	In Range
d10a-THC	0.001	0.000	0.000	0.000	0.000	0.000	0.000	In Range
d10b-THC	0.001	0.000	0.000	0.000	0.000	0.000	0.000	In Range
CBC	0.001	0.430	0.416	0.409	0.405	0.412	0.414	In Range
THCa	0.001	0.000	0.000	0.000	0.000	0.000	0.000	In Range
Total THC	0.001	5.810	5.605	5.569	5.477	5.534	5.599	Pass
Total CBD	0.001	11.692	11.505	11.331	11.364	11.515	11.481	Pass
Total THC+CBD	0.001	17.502	17.110	16.900	16.841	17.049	17.081	Pass

Cannabinoids analyzed by HPLC, lab SOP P-NY100. The reported result is based on a sample weight excluding moisture content for that sample. Unless otherwise stated all quality control samples performed were within specifications established by the Laboratory.

Total THC=CBDa*0.877 +d9THC + d8THC + d10THC	Total CBD=CBDa*0.877+CBD.	LOQ=Limit of Quantitation.
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 Kelly Greenland, PhD
 Kelly Greenland
 Lab Director

This product has been tested by KST using valid testing methodologies and a quality system as required by state law. Values reported relate only to the product tested. KST makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected levels of any compound reported herein.