



Utah Department of Agriculture and Food
Division of Laboratory Services
4451 South 2700 West
Taylorsville, Utah 84129
(801) 816-3840



CERTIFICATE OF ANALYSIS

Lot #: GGNBCBB1124

Sample Information

UDAF Lab #	HP23297-1	Issue Date:	10/30/2023
Client:	Farmer & Chemist	Client Email:	steven@farmerandchemist.com
Producer:	Farmer & Chemist	Sample Type:	Gelatinous Cubes
Description:	Gem Gems Blueberry Lemon		
Batch/Lot Number:	GGNBCBB1124	Date Received:	10/24/2023
Date Collected:		Collected By:	Self-Submitted

Notes:



Testing Summary

Status: PASS

Analysis:	Testing Date:	Status:	Notes:
Cannabinoids	10/27/2023	PASS	
Foreign Matter	10/24/2023	PASS	
Microbials	Plating: 10/24/2023 PCR: 10/25/2023	PASS	
Pesticides	10/26/2023	PASS	
Heavy Metals	10/27/2023	PASS	
Residual Solvents	10/26/2023	PASS	
Mycotoxins	10/26/2023	PASS	

Approved By:

Brandon Forsyth, Ph.D
State Chemist

Date: 10/30/2023

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Lot #: GGNBCBB1124

Cannabinoid Analysis

Status: PASS

Sample ID:	HP23297-1	Description:	Gem Gems Blueberry Lemon
Testing Date:	10/27/2023	Reviewed By:	Cameron Cheyne

Method: ACL.AM.003 Analysis performed using High-Performance Liquid Chromatography (HPLC-DAD)

Analyte	Abbreviation	CAS Number	% (w/w)	mg/g
Δ9-Tetrahydrocannabinidiol	Δ9-THC	1972-08-03	ND	ND
Δ8-Tetrahydrocannabinidiol	Δ8-THC	5957-75-5	ND	ND
Δ9-Tetrahydrocannabinolic acid	THCA	23978-85-0	ND	ND
Δ9-Tetrahydrocannabivarin	THCV	31262-37-0	ND	ND
Cannabidiol	CBD	13956-29-1	0.89%	8.9
Cannabidiolic acid	CBDA	1244-58-2	ND	ND
Cannabidivarin	CBDV	24274-48-4	ND	ND
Cannabinol	CBN	521-35-7	0.15%	1.5
Cannabigerol	CBG	25654-31-3	ND	ND
Cannabichromene	CBC	20675-51-8	NQ	NQ
Cannabigerolic acid	CBGA	25555-57-1	ND	ND
Cannabichromenic acid	CBCA	20408-52-0	ND	ND
Cannabicitran	CBTC	31508-71-1	NT	NT
9(R+S)-Δ6a,10a-Tetrahydrocannabinidiol	Δ3-THC	95720-01-07, 95720-02-8	ND	ND
(6aR,9R)-Δ10-Tetrahydrocannabinidiol	(6aR,9R)-Δ10-THC	95543-62-7	ND	ND
(6aR,9S)-Δ10-Tetrahydrocannabinidiol	(6aR,9S)-Δ10-THC	95588-87-7	ND	ND
Total Cannabinoids			1.05%	10.50
Total THC			ND	ND
Total CBD			0.89%	8.90
Total THC Analogs			ND	ND

Unknown Cannabinoid Peak Area: 0.0%

Status: PASS

Notes:

Total Cannabinoids is calculated as the direct sum of each of the cannabinoid values.

Total THC is calculated as Δ9-THC + (THCA x 0.877).

Total CBD is calculated as CBD + (CBDA x 0.877).

Total THC Analogs is calculated as Δ9-THC + (THCA x 0.877) + Δ8-THC + CBTC.

ND = Not Detected, NQ = Not Quantifiable, NT = Not Tested, <LOQ = Below the limit of quantification

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CERTIFICATE OF ANALYSIS

Lot #: GGNBCBB1124

Foreign Matter Analysis

Status: PASS

Sample ID:	HP23297-1	Description:	Gem Gems Blueberry Lemon
Testing Date:	10/24/2023	Reviewed By:	Brooke Smith

Method: Analysis performed by visual inspection aided by magnification

Analyte	Foreign Matter Found	Status
Foreign Matter		PASS

Notes:

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CERTIFICATE OF ANALYSIS

Lot #: GGNBCBB1124

Microbial Analysis

Status: PASS

Sample ID:	HP23297-1	Description:	Gem Gems Blueberry Lemon
Testing Date:	Plating: 10/24/2023 PCR: 10/25/2023	Reviewed By:	Brooke Smith

Method: Analysis performed using plating methods

Analyte	Result (cfu/g)	Allowed Limit	Status
TAC	<250	10,000	PASS
TYM	<250	1,000	PASS

Method: Analysis performed using Polymerase Chain Reaction (PCR)

Organism	Result	Required	Status
E. Coli	ND	<input checked="" type="checkbox"/>	PASS
Salmonella	ND	<input checked="" type="checkbox"/>	PASS
STEC	NT	<input type="checkbox"/>	--
Pseudomonas	NT	<input type="checkbox"/>	--
Aspergillus	NT	<input type="checkbox"/>	--
Staph	ND	<input checked="" type="checkbox"/>	PASS

Notes:

TNTC = To Numerous To Count, NT = Not Tested, ND = Not Detected, DET = Detected

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CERTIFICATE OF ANALYSIS

Lot #: GGNBCBB1124

Pesticide Analysis

Status: PASS

Sample ID:	HP23297-1	Description:	Gem Gems Blueberry Lemon
Testing Date:	10/26/2023	Reviewed By:	Cameron Cheyne

Method: ACL.AM.008 Analysis performed using Liquid Chromatography - Mass Spectrometry (LC-MS/MS)

Analyte	CAS Number	Result (ppm)	Action Level (ppm)	Status	Analyte	CAS Number	Result (ppm)	Action Level (ppm)	Status
Abamectin	71751-41-2	ND	0.5	PASS	Imazilil	35554-44-0	ND	0.2	PASS
Acephate	30560-19-1	ND	0.4	PASS	Imidacloprid	138261-41-3	ND	0.4	PASS
Acequinocyl	57960-19-7	ND	2	PASS	Kresoxim-methyl	143390-89-0	ND	0.4	PASS
Acetamiprid	135410-20-7	ND	0.2	PASS	Malathion	121-75-5	ND	0.2	PASS
Aldicarb	0116-06-03	ND	0.4	PASS	Metalaxyl	57837-19-1	ND	0.2	PASS
Azoxystrobin	131860-33-8	ND	0.2	PASS	Methiocarb	2032-65-7	ND	0.2	PASS
Bifenazate	149877-41-8	ND	0.2	PASS	Methomyl	16752-77-5	ND	0.4	PASS
Bifenthrin	82657-04-03	ND	0.2	PASS	Methyl parathion	298-00-0	ND	0.2	PASS
Boscalid	188425-85-6	ND	0.4	PASS	MGK-264	113-48-4	ND	0.2	PASS
Carbaryl	63-25-2	ND	0.2	PASS	Myclobutanil	88671-89-0	ND	0.2	PASS
Carbofuran	1563-66-2	ND	0.2	PASS	Naled	300-76-5	ND	0.5	PASS
Chlorantraniliprole	500008-45-7	ND	0.2	PASS	Oxamyl	23135-22-0	ND	1	PASS
Chlorfenapyr	122453-73-0	ND	1	PASS	Paclobutrazol	76738-62-0	ND	0.4	PASS
Chlorpyrifos	2921-88-2	ND	0.2	PASS	Permethrins	52645-53-1	ND	0.2	PASS
Clofentezine	74115-24-5	ND	0.2	PASS	Phosmet	0732-11-6	ND	0.2	PASS
Cyfluthrin	68359-37-5	ND	1	PASS	Piperonyl Butoxide	51-03-6	ND	2	PASS
Cypermethrin	52315-07-08	ND	1	PASS	Prallethrin	23031-36-9	ND	0.2	PASS
Daminozide	1596-84-5	ND	1	PASS	Propiconazole	60207-90-1	ND	0.4	PASS
Dichlorvos	62-73-7	ND	0.1	PASS	Propoxur	114-26-1	ND	0.2	PASS
Diazinon	333-41-5	ND	0.2	PASS	Pyrethrins	8003-34-7	ND	1	PASS
Dimethoate	60-51-5	ND	0.2	PASS	Pyridaben	96489-71-3	ND	0.2	PASS
Ethoprophos	13194-48-4	ND	0.2	PASS	Spinosad	168316-95-8	ND	0.2	PASS
Etofenprox	80844-07-01	ND	0.4	PASS	Spiromesifen	283594-90-1	ND	0.2	PASS
Etoazole	153233-91-1	ND	0.2	PASS	Spirotetramat	203313-25-1	ND	0.2	PASS
Fenoxycarb	72490-01-08	ND	0.2	PASS	Spiroxamine	118134-30-8	ND	0.4	PASS
Fenpyroximate	134098-61-6	ND	0.4	PASS	Tebuconazole	80443-41-0	ND	0.4	PASS
Fipronil	120068-37-3	ND	0.4	PASS	Thiacloprid	111988-49-9	ND	0.2	PASS
Flonicamid	158062-67-0	ND	1	PASS	Thiamethoxam	153719-23-4	ND	0.2	PASS
Fludioxonil	131341-86-1	ND	0.4	PASS	Trifloxystrobin	141517-21-7	ND	0.2	PASS
Hexythiazox	78587-05-0	ND	1	PASS					

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CERTIFICATE OF ANALYSIS

Lot #: GGNBCBB1124

Heavy Metal Analysis

Status: PASS

Sample ID:	HP23297-1	Description:	Gem Gems Blueberry Lemon
Testing Date:	10/27/2023	Reviewed By:	Cameron Cheyne

Method: ACL.AM.004 Analysis performed using Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

Analyte	CAS Number	Result (ppm)	Action Level (ppm)	Status
Arsenic	7440-38-2	ND	2	PASS
Cadmium	7440-43-9	ND	0.82	PASS
Lead	7439-92-1	ND	1.2	PASS
Mercury	7439-97-6	ND	0.4	PASS

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CERTIFICATE OF ANALYSIS

Lot #: GGNBCBB1124

Residual Solvent Analysis

Status: PASS

Sample ID:	HP23297-1	Description:	Gem Gems Blueberry Lemon
Testing Date:	10/26/2023	Reviewed By:	Cameron Cheyne

Method: ACL.AM.007 Analysis performed using Gas Chromatography - Mass Spectrometry (GC-MS/FID)

Analyte	CAS Number	Result (ppm)	Action Level (ppm)	Status	Analyte	CAS Number	Result (ppm)	Action Level (ppm)	Status
Acetone	67-64-1	ND	5000	PASS	Ethyl Ether	60-29-7	ND	5000	PASS
Acetonitrile	75-05-8	ND	410	PASS	Ethylbenzene	100-41-4	ND	See Xylenes	--
Benzene	71-43-2	ND	2	PASS	Ethylene Glycol	107-21-1	ND	620	PASS
Butane	106-97-8	ND	5000	PASS	Ethylene Oxide	75-21-8	ND	50	PASS
1-Butanol	71-36-3	ND	5000	PASS	Heptane	142-82-5	ND	5000	PASS
2-Butanol	78-92-2	ND	5000	PASS	n-Hexane	110-54-3	ND	290	PASS
2-Butanone	78-93-3	ND	5000	PASS	Isopropyl Acetate	108-21-4	ND	5000	PASS
Cumene	98-82-8	ND	70	PASS	Methanol	67-56-1	ND	3000	PASS
Cyclohexane	110-82-7	ND	3880	PASS	2-Methylbutane	78-78-4	ND	5000	PASS
Dichloromethane	75-09-2	ND	600	PASS	2-Methylpentane	107-83-5	ND	290	PASS
1,2-Dimethoxyethane	110-71-4	ND	100	PASS	3-Methylpentane	96-14-0	ND	290	PASS
Dimethyl Sulfoxide	67-68-5	ND	5000	PASS	Methylpropane	75-28-5	ND	5000	PASS
N,N-Dimethylacetamide	127-19-5	ND	1090	PASS	Pentane	109-66-0	ND	5000	PASS
1,2-Dimethylbenzene	95-47-6	ND	See Xylenes	--	1-Pentanol	71-41-0	ND	5000	PASS
1,3-Dimethylbenzene	108-38-3	ND	See Xylenes	--	Propane	74-98-6	ND	5000	PASS
1,4-Dimethylbenzene	106-42-3	ND	See Xylenes	--	1-Propanol	71-23-8	ND	5000	PASS
2,2-Dimethylbutane	75-83-2	ND	290	PASS	2-Propanol	67-63-0	ND	5000	PASS
2,3-Dimethylbutane	79-29-8	ND	290	PASS	Pyridine	110-86-1	ND	100	PASS
N,N-Dimethylformamide	68-12-2	ND	880	PASS	Sulfolane	126-33-0	ND	160	PASS
1,4-Dioxane	123-9	ND	380	PASS	Tetrahydrofuran	109-99-9	ND	720	PASS
Ethanol	64-17-5	ND	5000	PASS	Toluene	108-88-3	ND	890	PASS
2-Ethoxyethanol	110-80-5	ND	160	PASS	Xylenes	1330-20-7	ND	2170	PASS
Ethyl Acetate	141-78-6	ND	5000	PASS					

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CERTIFICATE OF ANALYSIS

Lot #: GGNBCBB1124

Mycotoxin Analysis

Status: PASS

Sample ID:	HP23297-1	Description:	Gem Gems Blueberry Lemon
Testing Date:	10/26/2023	Reviewed By:	Cameron Cheyne

Method: ACL.AM.004 Analysis performed using Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

Analyte	Result (ppb)	Action Level (ppb)	Status
AflatoxinB1	ND	See Total Aflatoxin	--
AflatoxinB2	ND	See Total Aflatoxin	--
AflatoxinG1	ND	See Total Aflatoxin	--
AflatoxinG2	ND	See Total Aflatoxin	--
Total Aflatoxin	0	20	PASS
Ochratoxin A	ND	20	PASS

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Certificate of Analysis

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Farmer & Chemist

7719 S. Main Street
Midvale, UT 84047
(385) 900-8997



Sample: 2210DBL0059.4982.R2

METRC Sample:

Strain: N/A

Ordered: 10/18/2022; Sampled: 10/20/2022; Completed: 11/19/2022; Analyzed:

Gummy: 25mg Broad + 5mg CBN

Ingestible, Soft Chew

Lot: GGNBCBB1124



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

Terpenes

Analyzed by 300.13 GC/FID and GC/MS

<LOQ Total Terpenes			
Compound	LOQ	Mass	Mass
	mg/unit	mg/unit	mg/g
α-Bisabolol	0.651	<LOQ	<LOQ
α-Humulene	0.651	<LOQ	<LOQ
α-Pinene	0.651	<LOQ	<LOQ
α-Terpinene	0.651	<LOQ	<LOQ
β-Caryophyllene	0.651	<LOQ	<LOQ
β-Myrcene	0.651	<LOQ	<LOQ
β-Pinene	0.651	<LOQ	<LOQ
Camphene	0.651	<LOQ	<LOQ
Caryophyllene Oxide	0.651	<LOQ	<LOQ
cis-Nerolidol	0.651	<LOQ	<LOQ
cis-Ocimene	0.651	<LOQ	<LOQ
δ-3-Carene	0.651	<LOQ	<LOQ
δ-Limonene	0.651	<LOQ	<LOQ
Eucalyptol	0.651	<LOQ	<LOQ
γ-Terpinene	0.651	<LOQ	<LOQ
Geraniol	0.651	<LOQ	<LOQ
Guaiol	0.651	<LOQ	<LOQ
Isopulegol	0.651	<LOQ	<LOQ
Linalool	0.651	<LOQ	<LOQ
p-Cymene	0.651	<LOQ	<LOQ
Terpinolene	0.651	<LOQ	<LOQ
trans-Nerolidol	0.651	<LOQ	<LOQ
trans-Ocimene	0.651	<LOQ	<LOQ

Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA

				Pass
<LOQ Δ9-THC + Δ8-THC		27.368 mg/unit CBD		pH: NT Aw: 0.64
		32.730 mg/unit Total Cannabinoids		Not Tested Homogeneity
Compound	LOQ	Mass	Mass	Relative Concentration
	mg/unit	mg/unit	mg/g	
CBC	0.206	0.222	0.063	
CBCa	0.206	<LOQ	<LOQ	
CBD	0.206	27.368	7.793	
CBDa	0.206	<LOQ	<LOQ	
CBDV	0.206	<LOQ	<LOQ	
CBDVa	0.206	<LOQ	<LOQ	
CBG	0.206	<LOQ	<LOQ	
CBGa	0.206	<LOQ	<LOQ	
CBL	0.206	<LOQ	<LOQ	
CBN	0.206	5.139	1.463	
Δ8-THC	0.206	<LOQ	<LOQ	
Δ9-THC	0.206	<LOQ	<LOQ	
THCa	0.206	<LOQ	<LOQ	
THCV	0.206	<LOQ	<LOQ	
THCVa	0.206	<LOQ	<LOQ	

1 Unit = Gummy: 25mg Broad + 5mg CBN, 3.51198g

Total THC = 0.877 x THC-A + Δ9-THC + Δ8-THC; Total CBD = CBDa * 0.877 + CBD



Notes: Updated unit weight. Addition of mycotoxins analysis.



Glen Marquez
Laboratory Director

Kelly Zaugg
Quality Control



4439 Polaris Ave
Las Vegas, NV
(702) 728-5180
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Certificate of Analysis

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Farmer & Chemist

7719 S. Main Street
Midvale, UT 84047
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Sample: 2210DBL0059.4982.R2

METRC Sample:

Strain: N/A

Ordered: 10/18/2022; Sampled: 10/20/2022; Completed: 11/19/2022; Analyzed:

Gummy: 25mg Broad + 5mg CBN

Ingestible, Soft Chew

Lot: GGNBCBB1124



Pesticides

Analyzed by 300.9 LC/MS/MS and GC/MS/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Abamectin	10	0	<LOQ	Pass
Acequinocyl	10	4000	<LOQ	Pass
Bifenazate	10	400	<LOQ	Pass
Bifenthrin	10	0	<LOQ	Pass
Cyfluthrin	10	2000	<LOQ	Pass
Cypermethrin	10	0	<LOQ	Pass
Daminozide	10	0	<LOQ	Pass
Dimethomorph	10	2000	<LOQ	Pass
Etiozole	10	400	<LOQ	Pass
Fenhexamid	10	1000	<LOQ	Pass
Flonicamid	10	1000	<LOQ	Pass
Fludioxonil	10	500	<LOQ	Pass
Imidacloprid	10	500	<LOQ	Pass
Myclobutanil	10	400	<LOQ	Pass
Paclobutrazol	10	0	<LOQ	Pass
Piperonyl Butoxide	10	3000	<LOQ	Pass
Pyrethrins	10	2000	<LOQ	Pass
Quintozene	10	800	<LOQ	Pass
Spinetoram	10	1000	<LOQ	Pass
Spinosad	10	1000	<LOQ	Pass
Spirotetramat	10	1000	<LOQ	Pass
Thiamethoxam	10	400	<LOQ	Pass
Trifloxystrobin	10	1000	<LOQ	Pass
Plant Growth Regulators	10	50	<LOQ	Pass

Microbials

Analyzed by 300.1 Plating/QPCR

Pass

Quantitative Analysis	LOQ	Limit	Mass	Status
	CFU/g	CFU/g	CFU/g	
Aerobic Bacteria	900	100000	<LOQ	Pass
Bile-Tolerant Gram-Negative Bacteria	90	1000	<LOQ	Pass
Qualitative Analysis	Detected or Not Detected		Status	
E. Coli	Not Detected		Pass	
Salmonella	Not Detected		Pass	

Mycotoxins

Analyzed by 300.2 Elisa

Pass

Mycotoxin	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Aflatoxins	4.0	20.0	<LOQ	Pass
Ochratoxin A	2.0	20.0	<LOQ	Pass

Heavy Metals

Analyzed by 300.8 ICP/MS

Pass

Element	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	50	2000	<LOQ	Pass
Cadmium	50	820	<LOQ	Pass
Lead	50	1200	<LOQ	Pass
Mercury	50	400	<LOQ	Pass

Residual Solvents

Analyzed by 300.13 GC/FID and GC/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Butanes	63	500	<LOQ	Pass
Ethanol	63		<LOQ	Tested
Heptanes	63	500	<LOQ	Pass
Propane	63	500	<LOQ	Pass



Glen Marquez
Laboratory Director

Kelly Zaugg
Quality Control



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