



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

CERTIFICATE OF ANALYSIS

Sample Information

UDAF Lab #	CN24129-6	Issue Date:	5/14/2024
Client:	Riverside Farm	Client Email:	matt@riversidefarmer.com
Producer:	Riverside Farm	Sample Type:	Packaged Flower
Description:	Garlic Jam Flower: 3.5g/7g		
Batch/Lot Number:	240401H	Date Received:	05/08/2024
Date Collected:	05/07/2024	Collected By:	Dominik Gallegos

Notes:



Testing Summary

Status: PASS

Analysis:	Testing Date:	Status:	Notes:
Cannabinoids	05/13/2024	PASS	
Foreign Matter	05/08/2024	PASS	
Microbials	Plating: 05/08/2024 PCR: 05/13/2024	PASS	
Moisture	05/09/2024	PASS	
Pesticides	05/14/2024	PASS	
Heavy Metals	05/13/2024	PASS	
Terpenes	05/10/2024	--	

Approved By: _____

Brandon Forsyth, Ph.D
State Chemist

Date: 5/14/2024

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CERTIFICATE OF ANALYSIS

Cannabinoid Analysis

Status: PASS

Sample ID:	CN24129-6	Description:	Garlic Jam Flower: 3.5g/7g
Testing Date:	05/13/2024	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	0.47%	4.7
Δ8-Tetrahydrocannabinidiol	Δ8-THC	5957-75-5	<LOQ	<LOQ
Δ9-Tetrahydrocannabinolic acid	THCA	23978-85-0	29.37%	293.7
Δ9-Tetrahydrocannabivarin	THCV	31262-37-0	NQ	NQ
Cannabidiol	CBD	13956-29-1	0.18%	1.8
Cannabidiolic acid	CBDA	1244-58-2	0.03%	0.3
Cannabidivarin	CBDV	24274-48-4	ND	ND
Cannabinol	CBN	521-35-7	ND	ND
Cannabigerol	CBG	25654-31-3	0.11%	1.1
Cannabichromene	CBC	20675-51-8	ND	ND
Cannabigerolic acid	CBGA	25555-57-1	1.23%	12.3
Cannabichromenic acid	CBCA	20408-52-0	0.34%	3.4
Cannabicitran	CBTC	31508-71-1	ND	ND
9(R+S)-Δ6a,10a-Tetrahydrocannabinidiol	Δ3-THC	95720-01-07, 95720-02-8	NQ	NQ
(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			31.74%	317.4
Total THC			26.23%	262.3
Total CBD			0.21%	2.1

Unknown Cannabinoid Peak Area: 1.8%

THC-OAc Peak Area: ND

Mass Per Piece: --

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).

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

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CERTIFICATE OF ANALYSIS

Foreign Matter Analysis

Status: PASS

Sample ID:	CN24129-6	Description:	Garlic Jam Flower: 3.5g/7g
Testing Date:	05/08/2024	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

Microbial Analysis

Status: PASS

Sample ID:	CN24129-6	Description:	Garlic Jam Flower: 3.5g/7g
Testing Date:	Plating: 05/08/2024 PCR: 05/13/2024	Reviewed By:	Brooke Smith

Method: Analysis performed using plating methods

Analyte	Result (cfu/g)	Allowed Limit	Status
TAC	<250	100,000	PASS
TYM	<250	NA	--

Method: Analysis performed using Polymerase Chain Reaction (PCR)

Organism	Result	Required	Status
E. Coli	ND	☒	PASS
Salmonella	ND	☒	PASS
STEC	NT	☐	--
Pseudomonas	NT	☐	--
Aspergillus	ND	☒	PASS
Staph	NT	☐	--

Notes:

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

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CERTIFICATE OF ANALYSIS

Moisture Content and Water Activity

Status: PASS

Sample ID:	CN24129-6	Description:	Garlic Jam Flower: 3.5g/7g
Testing Date:	05/09/2024	Reviewed By:	Cameron Cheyne

Method: ACL.AM.002 Analysis performed using thermogravimetric analysis

Measurement	Result	
Moisture Content (%)	12.24%	

Method: ACL.AM.002 Analysis performed using chilled mirror dew point sensor

Measurement	Result	Action Level	Status
Water Activity	0.520	0.65	PASS

Notes:

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CERTIFICATE OF ANALYSIS

Pesticide Analysis

Status: PASS

Sample ID:	CN24129-6	Description:	Garlic Jam Flower: 3.5g/7g
Testing Date:	05/14/2024	Reviewed By:	Amber King

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	<LOQ	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
Etoxazole	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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Heavy Metal Analysis

Status: PASS

Sample ID:	CN24129-6	Description:	Garlic Jam Flower: 3.5g/7g
Testing Date:	05/13/2024	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	0.008	0.4	PASS

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CERTIFICATE OF ANALYSIS

Terpene Analysis

Sample ID:	CN24129-6	Description:	Garlic Jam Flower: 3.5g/7g
Testing Date:	05/10/2024	Reviewed By:	Cameron Cheyne

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

Analyte	CAS Number		Result (%)
α -Terpinene	99-86-5		ND
β -Caryophyllene	87-44-5		0.07
β -Myrcene	123-35-3		0.17
β -Pinene	127-91-3		0.04
α -Bisabolol	515-69-5		ND
Camphene	79-92-5		ND
δ -3-Carene	13466-78-9		ND
Geraniol	106-24-1		ND
Guaiol	489-86-1		ND
α -Humulene	6753-98-6		0.03
Isopulegol	89-79-2		ND
D-Limonene	5989-27-5		0.32
Linalool	78-70-6		0.07
Ocimene	502-99-8, 3338-55-4, 3779-61-1		ND
p-Cymene	99-87-6		ND
α -Pinene	80-56-8		0.02
Terpinolene	586-62-9		ND
γ -Terpinene	99-85-4		ND
Nerolidol	7212-44-4		0.04

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