JOYORGANICS

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Organic CBD Tincture - Orange
PRODUCT STRENGTH:	900mg
TINCTURE BATCH:	220624
BEST BY DATE:	6/27/2024
HEMP EXTRACT LOT:	BCA-00410-220624

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Coconut and Hemp, Orange	PASS
Appearance	Joy Internal	Golden to Amber oil in brown glass bottle with dropper.	PASS
Primary Package Eval.	Joy Internal	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	Joy Internal	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	HPLC-UV DAD	*NLT (product strength) mg / bottle 991mg		PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: 10 ppm (.001-0.3%)	ND	PASS
Expanded Pesticide Panel	HPLC-QQQ	OQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract ND		PASS
Microbial Escherichia coli (STEC)	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Salmonella	PCR	Complies with CDPHE 6 CCR 1010-21 - LOQ 1 CFU/25 gram	Absent	PASS
Microbial Yeast and Mold	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Microbial Total Coliforms*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^2 CFU/gram	Below LOQ	PASS
Microbial Total Aerobic Count*	Culture Plating	Complies with CDPHE 6 CCR 1010-21 - LOQ 10^3 CFU/gram	Below LOQ	PASS
Heavy Metals Panel	ICP-MS	Arsenic (As): ≤1.5 ppm Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	ND	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	ND	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	ND	PASS

* *Level of Quantitation, † Parts Per Million † Part Per Billion CFU/g=Colony Forming Units per Gram *Nothing Less Than 10^2=100 CFU 10^3=1,000 CFU

Name

Quality Certified

Date

11/1/2022

2519 S. Shields St. #1042, Fort Collins, CO 80526 Tel: (833) 569-7223 www.joyorganics.com

FO-106 Certificate of Analysis Rev. 1.1 - Effective Date: 6/30/2022





Report Number:	22-007617/D002.R000
Report Date:	07/07/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	06/29/22 11:00

Product identity:	OTO900-220624
Client/Metrc ID:	900mg 5G Broad Spectrum Tincture Bulk lot #BCA-00410-220624 .
Laboratory ID:	22-007617-0002

Summary

Analyte	Result	Limits	Units	Status	CBD-Total per 1g	34.8 mg/1g
CBD	3.48		%			
CBDV [†]	0.0191		%			
CBG [†]	0.211		%		THC-Total per 1g	<loq< td=""></loq<>
CBT [†]	0.0399		%		(Reported in milli	- – – – – – – – – – – – – – – – – – – –
Analyte per 1g	Result	Limits	Units	Status		
CBD per 1g	34.8		mg/1g			
CBDV per 1g [†]	0.191		mg/1g			
CBG per 1g [†]	2.11		mg/1g			
CBT per 1g [†]	0.399		mg/1g			

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Residual Solvents:

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All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

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Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.

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22-007617/D002.R000 **Report Number: Report Date:** 07/07/2022 ORELAP#: OR100028 **Purchase Order: Received:** 06/29/22 11:00



Product identity:	900mg 5G Broad Spectrum Tincture Bulk lot #BCA-00410-220624 .
Client/Metrc ID:	OTO900-220624
Laboratory ID:	22-007617-0002
Evidence of Cooling:	No
Temp: Relinquished	26.2 °C
by: Serving Size #1:	UPS

1 g

Sample Results

Potency	Method: J AOAC 2015	/98-6 (mod)	Units %	Batch: 2205650	Analyze: 7/2/22 3:52:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.00325	
CBC-A [†]	< LOQ		%	0.00325	
CBC-Total [†]	< LOQ		%	0.00610	
CBD	3.48		%	0.0325	
CBD-A	< LOQ		%	0.00325	
CBD-Total	3.48		%	0.0353	
CBDV [†]	0.0191		%	0.00325	
CBDV-A [†]	< LOQ		%	0.00325	
CBDV-Total [†]	0.0191		%	0.00606	
CBE [†]	< LOQ		%	0.00325	
CBG [†]	0.211		%	0.00325	
CBG-A [†]	< LOQ		%	0.00325	
CBG-Total	0.211		%	0.00606	
CBL [†]	< LOQ		%	0.00325	
CBL-A [†]	< LOQ		%	0.00325	
CBL-Total [†]	< LOQ		%	0.00610	
CBN	< LOQ		%	0.00325	
CBT [†]	0.0399		%	0.00325	
∆8-THCV	< LOQ		%	0.00325	
$\Delta 8$ -THC	< LOQ		%	0.00325	
∆9-THC	< LOQ		%	0.00325	
exo-THC	< LOQ		%	0.00325	
THC-A	< LOQ		%	0.00325	
THC-Total	< LOQ		%	0.00610	
THCV [†]	< LOQ		%	0.00325	
THCV-A [†]	< LOQ		%	0.00325	
THCV-Total [†]	< LOQ		%	0.00606	
Total Cannabinoids [†]	3.75		%		
Potency per 1g	Method: J AOAC 2015	/98-6 (mod)	Units mg/se	e Batch: 2205650	Analyze: 7/2/22 3:52:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g [†]	< LOQ		mg/1g	0.0325	
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Testing in accordance with: OAR 333-007-0430



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12423 NE Whitaker Way Portland, OR 97230 503-254-1794



Report Number:	22-007617/D002.R000
Report Date:	07/07/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	06/29/22 11:00

Potency per 1g	Method: J AOAC 2015 V98-6 (mod)		Units mg/se Ba	tch: 2205650	Analyze: 7/2/22 3:52:00 AM			
Analyte	Result	Limits	Units	LOQ	Notes			
CBC-A per 1g [†]	< LOQ		mg/1g	0.0325				
CBC-Total per 1g [†]	< LOQ		mg/1g	0.0610				
CBD per 1g	34.8		mg/1g	0.325				
CBD-A per 1g	< LOQ		mg/1g	0.0325				
CBD-Total per 1g	34.8		mg/1g	0.353				
CBDV per 1g [†]	0.191		mg/1g	0.0325				
CBDV-A per 1g [†]	< LOQ		mg/1g	0.0325				
CBDV-Total per 1g [†]	0.191		mg/1g	0.0606				
CBE per 1g [†]	< LOQ		mg/1g	0.0325				
CBG per 1g [†]	2.11		mg/1g	0.0325				
CBG-A per 1g [†]	< LOQ		mg/1g	0.0325				
CBG-Total per 1g [†]	2.11		mg/1g	0.0606				
CBL per 1g [†]	< LOQ		mg/1g	0.0325				
CBL-A per 1g [†]	< LOQ		mg/1g	0.0325				
CBL-Total per 1g [†]	< LOQ		mg/1g	0.0610				
CBN per 1g	< LOQ		mg/1g	0.0325				
CBT per 1g [†]	0.399		mg/1g	0.0325				
$\Delta 8$ -THCV per 1g [†]	< LOQ		mg/1g	0.0325				
$\Delta 8$ -THC per 1g [†]	< LOQ		mg/1g	0.0325				
∆9-THC per 1g	< LOQ		mg/1g	0.0325				
exo-THC per 1g [†]	< LOQ		mg/1g	0.0325				
THC-A per 1g	< LOQ		mg/1g	0.0325				
THC-Total per 1g	< LOQ		mg/1g	0.0610				
THCV per 1g [†]	< LOQ		mg/1g	0.0325				
THCV-A per 1g [†]	< LOQ		mg/1g	0.0325				
THCV-Total per 1g [†]	< LOQ		mg/1g	0.0610				
Total Cannabinoids per 1g	37.5		mg/1g					

Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
< LOQ	10,000.00	cfu/g	10	2205548	07/02/22	AOAC 990.12 (Petrifilm)	pass	х
< LOQ	100.00	cfu/g	10	2205546	07/02/22	AOAC 991.14 (Petrifilm)	pass	Х
< LOQ	100.00	cfu/g	10	2205546	07/02/22	AOAC 991.14 (Petrifilm)	pass	Х
< LOQ	1,000.00	cfu/g	10	2205547	07/03/22	AOAC 2014.05 (RAPID)	pass	Х
< LOQ	1,000.00	cfu/g	10	2205547	07/03/22	AOAC 2014.05 (RAPID)	pass	Х
Negative		/25g		2205551	07/01/22	AOAC 2020.02		Х
Negative		/25g		2205553	07/01/22	AOAC RI 121806		Х
	< LOQ < LOQ < LOQ < LOQ < LOQ Negative	< LOQ 10,000.00 < LOQ 100.00 < LOQ 100.00 < LOQ 1,000.00 < LOQ 1,000.00 Negative	< LOQ 10,000.00 cfu/g < LOQ 100.00 cfu/g < LOQ 100.00 cfu/g < LOQ 1,000.00 cfu/g < LOQ 1,000.00 cfu/g Negative /25g	< LOQ 10,000.00 cfu/g 10 < LOQ 100.00 cfu/g 10 < LOQ 100.00 cfu/g 10 < LOQ 1,000.00 cfu/g 10 < LOQ 1,000.00 cfu/g 10 < LOQ 1,000.00 cfu/g 10 Negative /25g	 LOQ 10,000.00 cfu/g 10 2205548 LOQ 100.00 cfu/g 10 2205546 LOQ 100.00 cfu/g 10 2205546 LOQ 1,000.00 cfu/g 10 2205547 LOQ 1,000.00 cfu/g 10 2205547 Negative /25g 2205551 	< LOQ 10,000.00 cfu/g 10 2205548 07/02/22 < LOQ	< LOQ 10,000.00 cfu/g 10 2205548 07/02/22 AOAC 990.12 (Petrifilm) < LOQ	< LOQ

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 Testing in accordance with: OAR 333-007-0390
 OAR 333-007-0430





22-007617/D002.R000 **Report Number: Report Date:** 07/07/2022 ORELAP#: OR100028 **Purchase Order:** 06/29/22 11:00 **Received:**

Solvents	Method:	Residua	I Solve	ents by	GC/MS	Units µg/g Bat	ch 2205605	Analyz	e 07/0	01/22 1	2:42 PM
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
2-Methylbutane	< LOQ	1000	200	pass		2-Methylpentane	< LOQ	60.0	30.0	pass	
2-Propanol (IPA)	< LOQ	1000	200	pass		2,2-Dimethylbutane	e < LOQ	60.0	30.0	pass	
2,2-Dimethylpropane	< LOQ	1000	200	pass		2,3-Dimethylbutane	e < LOQ	60.0	30.0	pass	
3-Methylpentane	< LOQ	60.0	30.0	pass		Acetone	< LOQ	1000	200	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	1000	400	pass	
Ethanol [†]	< LOQ	1000	200	pass		Ethyl acetate	< LOQ	1000	200	pass	
Hexanes (sum)	< LOQ	60.0	150	pass		m,p-Xylene	< LOQ	430	200	pass	
Methanol	< LOQ	600	200	pass		Methylpropane	< LOQ	1000	200	pass	
n-Butane	< LOQ	1000	200	pass		n-Heptane	< LOQ	1000	200	pass	
n-Hexane	< LOQ	60.0	30.0	pass		n-Pentane	< LOQ	1000	200	pass	
o-Xylene	< LOQ	430	200	pass		Pentanes (sum)	< LOQ	1000	600	pass	
Propane	< LOQ	1000	200	pass		Toluene	< LOQ	180	100	pass	
Total Xylenes	< LOQ	430	400	pass							

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Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan
unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless
prior arrangements have been made.
Tester except on the receipt date unless
prior arrangements have been made.





22-007617/D002.R000 **Report Number: Report Date:** 07/07/2022 ORELAP#: OR100028 **Purchase Order: Received:** 06/29/22 11:00

Analyte Result Limits LOQ Status Notes Abarnectin < LOQ 0.25 0.070 pass Acephate < LOQ 0.050 0.020 pass Accequincory < LOQ 0.050 0.025 pass Acetamiprid < LOQ 0.010 0.500 0.050 pass Aldicarb < LOQ 0.020 0.0250 0.025 pass Aladirachtin < LOQ 0.010 0.010 pass Atrazine < LOQ 0.010 0.010 pass Bifenzate < LOQ 0.010 0.010 pass Bifenzate < LOQ 0.020 0.025 pass Carbofuran < LOQ 0.010 0.010 pass Charbaryl < LOQ 0.020 0.010 pass Carbofuran < LOQ 0.010 0.010 pass Charbaryl < LOQ 0.020 0.025 pass Carbofuran < LOQ 0.010 0.010 pass Charbaryl < LOQ 0.020 0.020 pass Charbaryl < LOQ 0.020 0.200 pass Charbaryl < LOQ	Pesticides	Method: AOA	AC 2007.01 & EN 15662 (mod) Units mg/kg Batch 22	205582	Analyze 06/30/22 04:15 PM
Acequincor) <loq< td=""> 0.030 0.025 pass Acetamiprid <loq< td=""> 0.050 0.050 pass Aldianb <loq< td=""> 0.000 0.000 pass Allethrin <loq< td=""> 0.100 pass Atrazine <loq< td=""> 0.000 0.001 pass Benzovindillupyr <loq< td=""> 0.001 0.010 pass Bifenazate <loq< td=""> 0.010 0.010 pass Benzovindillupyr <loq< td=""> 0.001 0.001 pass Carbaryl <loq< td=""> 0.001 0.010 pass Buprofezin <loq< td=""> 0.010 0.010 pass Chloraptrinniliprole <loq< td=""> 0.020 0.025 pass Carbofuran <loq< td=""> 0.010 0.010 pass Chloraptrinniliprole <loq< td=""> 0.020 0.025 pass Colontenazine <loq< td=""> 0.010 0.010 pass Cyhardniliprole <loq< td=""> 0.020 0.020 pass Colontenazine <loq< td=""> 0.020 0.020 pass Cyhardniliprole <loq< td=""> 0.050 pass Darinon <loq< td=""> 0.010 pass Cyhardniliprole <loq< td=""> 0.050 pass Darinon <loq< td=""> 0.010 pass Direhorwos <lo< th=""><th>Analyte</th><th>Result</th><th>Limits LOQ Status Notes</th><th>Analyte</th><th>Result</th><th>Limits LOQ Status Notes</th></lo<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<></loq<>	Analyte	Result	Limits LOQ Status Notes	Analyte	Result	Limits LOQ Status Notes
Aldcarb < LOQ	Abamectin	< LOQ	0.25 0.070 pass	Acephate	< LOQ	0.050 0.020 pass
Atrazine < LOQ 0.0250 0.025 pass Azadirachtin < LOQ 1.0 0.500 pass Azoxystrobin < LOQ	Acequinocyl	< LOQ	0.030 0.025 pass	Acetamiprid	< LOQ	0.050 0.050 pass
Azoxystrobin< LOQ0.0100.010 passBenzovindiflupyr< LOQ0.0100.010 passBienzate< LOQ	Aldicarb	< LOQ	0.50 0.100 pass	Allethrin	< LOQ	0.10 0.100 pass
Bifenazate < LOQ 0.010 0.010 pass Bifenthrin < LOQ 1.0 0.100 pass Boscalid < LOQ	Atrazine	< LOQ	0.0250 0.025 pass	Azadirachtin	< LOQ	1.0 0.500 pass
Boscalid< LOQ0.0100.010passBuprofezin< LOQ0.0200.010passCarbaryl< LOQ	Azoxystrobin	< LOQ	0.010 0.010 pass	Benzovindiflupyr	< LOQ	0.010 0.010 pass
Carbaryl < LOQ 0.025 0.025 pass Carbofuran < LOQ 0.010 pass Chlorantraniliprole < LOQ	Bifenazate	< LOQ	0.010 0.010 pass	Bifenthrin	< LOQ	1.0 0.100 pass
Chlorantraniliprole < LOQ 0.020 0.010 pass Chlorenezine < LOQ 0.010 0.010 pass Chlorynifos < LOQ	Boscalid	< LOQ	0.010 0.010 pass	Buprofezin	< LOQ	0.020 0.010 pass
Chlorpyrifos < LQQ 0.50 0.010 pass Clofentezine < LQQ 0.010 0.010 pass Clothinnidin < LQQ	Carbaryl	< LOQ	0.025 0.025 pass	Carbofuran	< LOQ	0.010 0.010 pass
Clothianidin < LQQ 0.025 0.025 pass Coumaphos < LQQ 0.010 pass Cynattaniliprole < LQQ	Chlorantraniliprole	< LOQ	0.020 0.010 pass	Chlorfenapyr	< LOQ	1.5 0.100 pass
Cyantraniliprole < LOQ 0.010 0.010 pass Cyfluthrin < LOQ 0.200 pass Cybradintrin,lambda < LOQ	Chlorpyrifos	< LOQ	0.50 0.010 pass	Clofentezine	< LOQ	0.010 0.010 pass
Cyhalothrin,lambda < LOQ 0.0200 250 pass Cypermethrin < LOQ 0.30 0.300 pass Cyprodinil < LOQ	Clothianidin	< LOQ	0.025 0.025 pass	Coumaphos	< LOQ	0.010 0.010 pass
Cyprodinil< LOQ0.0100.010 passDaminozide< LOQ0.0100.050 passDetlamethrin< LOQ	Cyantraniliprole	< LOQ	0.010 0.010 pass	Cyfluthrin	< LOQ	0.20 0.200 pass
Deltamethrin< LOQ0.500.500 passDiazinon< LOQ0.0200.010 passDichlorvos< LOQ	Cyhalothrin, lambda	< LOQ	0.0200 0.250 pass	Cypermethrin	< LOQ	0.30 0.300 pass
Dichlorvos < LOQ 0.050 0.050 pass Dimethoate < LOQ 0.010 0.010 pass Dimethomorph < LOQ	Cyprodinil	< LOQ	0.010 0.010 pass	Daminozide	< LOQ	0.10 0.050 pass
Dimethomorph < LOQ 0.050 0.050 pass Dinotefuran < LOQ 0.050 0.050 pass Diuron < LOQ	Deltamethrin	< LOQ	0.50 0.500 pass	Diazinon	< LOQ	0.020 0.010 pass
Diuron < LOQ 0.125 0.125 pass Dodemorph < LOQ 0.50 0.500 pass Endosulfan I (alpha) < LOQ	Dichlorvos	< LOQ	0.050 0.050 pass	Dimethoate	< LOQ	0.010 0.010 pass
Endosulfan I (alpha) < LOQ 2.5 0.050 pass Endosulfan II (beta) < LOQ 2.5 0.050 pass Endosulfan sulfate < LOQ	Dimethomorph	< LOQ	0.050 0.050 pass	Dinotefuran	< LOQ	0.050 0.050 pass
Endosulfan sulfate < LOQ 2.5 0.050 pass Ethoprophos < LOQ 0.010 0.010 pass Etofenprox < LOQ	Diuron	< LOQ	0.125 0.125 pass	Dodemorph	< LOQ	0.050 0.050 pass
Etofenprox < LOQ 0.050 0.010 pass Etoxazole < LOQ 0.020 0.010 pass Etridiazole < LOQ	Endosulfan I (alpha)	< LOQ	2.5 0.050 pass	Endosulfan II (beta)	< LOQ	2.5 0.050 pass
Etridiazole < LOQ	Endosulfan sulfate	< LOQ	2.5 0.050 pass	Ethoprophos	< LOQ	0.010 0.010 pass
Fenoxycarb< LOQ0.0100.010 passFenpyroximate< LOQ0.0200.020 passFensulfothion< LOQ	Etofenprox	< LOQ	0.050 0.010 pass	Etoxazole	< LOQ	0.020 0.010 pass
Fensulfothion < LOQ 0.010 0.010 pass Fenthion < LOQ 0.010 pass Fenvalerate < LOQ	Etridiazole	< LOQ	0.15 0.050 pass	Fenhexamid	< LOQ	0.13 0.100 pass
Fenvalerate< LOQ0.200Fipronil< LOQ0.0100.010 passFlonicamid< LOQ	Fenoxycarb	< LOQ	0.010 0.010 pass	Fenpyroximate	< LOQ	0.020 0.020 pass
Flonicamid< LOQ0.0250.025 passFludioxonil< LOQ0.0100.010 passFluopyram< LOQ	Fensulfothion	< LOQ	0.010 0.010 pass	Fenthion	< LOQ	0.010 0.010 pass
Fluopyram< LOQ0.0100.010 passHexythiazox< LOQ0.0100.010 passImazalil< LOQ	Fenvalerate	< LOQ	0.200	Fipronil	< LOQ	0.010 0.010 pass
Imazalil < LOQ	Flonicamid	< LOQ	0.025 0.025 pass	Fludioxonil	< LOQ	0.010 0.010 pass
Iprodione < LOQ 0.50 0.500 pass Kinoprene < LOQ 1.3 0.200 pass Kresoxim-methyl < LOQ	Fluopyram	< LOQ	0.010 0.010 pass	Hexythiazox	< LOQ	0.010 0.010 pass
Kresoxim-methyl < LOQ 0.15 0.010 pass Malathion < LOQ 0.010 0.010 pass Metalaxyl < LOQ	Imazalil	< LOQ	0.010 0.010 pass	Imidacloprid	< LOQ	0.010 0.010 pass
Metalaxyl < LOQ 0.010 0.010 pass Methiocarb < LOQ 0.010 0.010 pass Methomyl < LOQ	Iprodione	< LOQ	0.50 0.500 pass	Kinoprene	< LOQ	1.3 0.200 pass
Methomyl < LOQ 0.025 0.025 pass Methoprene < LOQ 2.0 1.00 pass Mevinphos < LOQ	Kresoxim-methyl	< LOQ	0.15 0.010 pass	Malathion	< LOQ	0.010 0.010 pass
Mevinphos < LOQ 0.025 0.025 pass MGK-264 < LOQ 0.050 0.050 pass Myclobutanil < LOQ	Metalaxyl	< LOQ	0.010 0.010 pass	Methiocarb	< LOQ	0.010 0.010 pass
Myclobutanil < LOQ 0.010 0.010 pass Naled < LOQ 0.10 0.100 pass Novaluron < LOQ	Methomyl	< LOQ	0.025 0.025 pass	Methoprene	< LOQ	2.0 1.00 pass
Novaluron < LOQ 0.025 0.025 pass Oxamyl < LOQ 1.5 0.500 pass Paclobutrazole < LOQ	Mevinphos	< LOQ	0.025 0.025 pass	MGK-264	< LOQ	•
Paclobutrazole < LOQ 0.010 0.010 pass Parathion-Methyl < LOQ 0.050 0.030 pass Permethrin < LOQ	Myclobutanil	< LOQ	0.010 0.010 pass	Naled	< LOQ	0.10 0.100 pass
Permethrin < LOQ 0.50 0.040 pass Phenothrin < LOQ 0.050 0.025 pass Phosmet < LOQ	Novaluron	< LOQ		Oxamyl	< LOQ	1.5 0.500 pass
Phosmet < LOQ 0.020 0.010 pass Piperonyl butoxide < LOQ 1.3 0.200 pass Pirimicarb < LOQ	Paclobutrazole	< LOQ	0.010 0.010 pass	Parathion-Methyl	< LOQ	0.050 0.030 pass
Pirimicarb < LOQ 0.010 0.010 pass Prallethrin < LOQ 0.050 0.050 pass	Permethrin	< LOQ	0.50 0.040 pass	Phenothrin	< LOQ	0.050 0.025 pass
	Phosmet	< LOQ	0.020 0.010 pass	Piperonyl butoxide	< LOQ	1.3 0.200 pass
	Pirimicarb	< LOQ	0.010 0.010 pass	Prallethrin	< LOQ	0.050 0.050 pass
Propiconazole < LOQ 0.10 0.010 pass Propoxur < LOQ 0.010 0.010 pass	Propiconazole	< LOQ	0.10 0.010 pass	Propoxur	< LOQ	0.010 0.010 pass
Pyraclostrobin < LOQ 0.010 0.010 pass Pyrethrins (total) < LOQ 0.050 0.025 pass	Pyraclostrobin	< LOQ	0.010 0.010 pass	Pyrethrins (total)	< LOQ	0.050 0.025 pass
Pyridaben < LOQ 0.020 0.020 pass Pyriproxyfen < LOQ 0.0100 0.010 pass	Pyridaben	< LOQ	0.020 0.020 pass	Pyriproxyfen	< LOQ	0.0100 0.010 pass
Quintozene< LOQ0.0200.020 passResmethrin< LOQ0.0500.020 pass	Quintozene		0.020 0.020 pass	Resmethrin	< LOQ	0.050 0.020 pass
Spinetoram< LOQ0.0100.010passSpinosad< LOQ0.0100.010pass	•		•	•		
Spirodiclofen< LOQ0.250.250 passSpiromesifen< LOQ3.00.030 pass				•		
Spirotetramat< LOQ0.0100.010passSpiroxamine< LOQ0.100.010pass	Spirotetramat	< LOQ	0.010 0.010 pass	Spiroxamine	< LOQ	0.10 0.010 pass

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 Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

 Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

6	
	💽 A Tentamus Company



Report Number:	22-007617/D002.R000
Report Date:	07/07/2022
ORELAP#:	OR100028
Purchase Order:	
Received:	06/29/22 11:00

Pesticides	Method: AO	AC 2007	7.01 & EN	15662 (mo	od) L	Jnits mg/kg	Batch 22	05582	Analy	ze 06/30/22	04:	15 PM
Analyte	Result	Limits	LOQ Stat	us Notes	A	nalyte		Result	Limits	LOQ Statu	s N	otes
Tebuconazole	< LOQ	0.010	0.010 pass	6	Т	ebufenozide		< LOQ	0.010	0.010 pass		
Teflubenzuron	< LOQ	0.025	0.025 pass	3	Т	etrachlorvinp	ohos	< LOQ	0.010	0.010 pass		
Tetramethrin	< LOQ	0.10	0.050 pass	3	Т	hiacloprid		< LOQ	0.010	0.010 pass		
Thiamethoxam	< LOQ	0.010	0.010 pass	3	Т	hiophanate-N	Methyl	< LOQ	0.050	0.030 pass		
Trifloxystrobin	< LOQ	0.010	0.010 pass	s 								
Metals												
Analyte	R	esult	Limits	Units	LOQ	Batch	Analyze	Method		St	atus	Notes
Arsenic	<	LOQ	1.50	mg/kg	0.0874	2205591	06/30/22	AOAC 20	013.06 (r	mod.) pa	SS	Х
Cadmium	<	LOQ	0.50	mg/kg	0.0874	2205591	06/30/22	AOAC 20	013.06 (r	nod.) pa	SS	Х
Lead	<	LOQ	0.50	mg/kg	0.0874	2205591	06/30/22	AOAC 20	013.06 (r	nod.) pa	SS	Х
Mercury	<	LOQ	1.50	mg/kg	0.0437	2205591	06/30/22	AOAC 20	013.06 (r	mod.) pa	ss	X
Mycotoxins												
Analyte	R	esult	Limits	Units	LOQ	Batch	Analyze	Method		St	atus	Notes
Aflatoxin B2 [†]	<	LOQ	5.00	µg/kg	5.00	2205724	07/07/22	AOAC 20	007.01 &	EN pa	SS	
Aflatoxin B1 [†]	<	LOQ	5.00	µg/kg	5.00	2205724	07/07/22	AOAC 20	007.01 &	EN pa	SS	
Aflatoxin G1 [†]	<	LOQ	5.00	µg/kg	5.00	2205724	07/07/22	AOAC 20	007.01 &	EN pa	SS	
Aflatoxin G2 [†]	<	LOQ	5.00	µg/kg	5.00	2205724	07/07/22	AOAC 20	007.01 &	EN pa	SS	
Ochratoxin A [†]	<	LOQ	5.00	µg/kg	5.00	2205724	07/07/22	AOAC 20	007.01 &	EN pa	SS	
Ochratoxin B [†]	<	LOQ		µg/kg	2.00	2205724	07/07/22	AOAC 20	07.01 &	EN		

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 Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



OTO900-220624

Test: Microbial Conta	aminants	Reported: 14Oct2022		USDA License: N/A			
Aatrix: Test ID:		Started:		Sampler ID: N/A			
T000224183		11Oct2022					
Method(s):		Received:		Status:			
-		10Oct2022		Active			
		e					
Method	LOD	Quantitation Range	Result	Notes			
TM25: PCR	10 ⁰ CFU/25g	NA	Absent	Free from visual mold, mildew, and			
TM25: PCR	10 ⁰ CFU/25g	NA	Absent	— foreign matter			
TM24: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected				
TM26: Culture Plating	10 ² CFU/g	1.0x10 ³ - 1.5x10 ⁵ None Detected					
TM27: Culture Plating	10 ¹ CFU/g	1.0x10 ² - 1.5x10 ⁴	None Detected				
	Microbial Conta Test ID: T000224183 Method(s): TM25 (qPCR) TM (Culture Plating): Panel) Method TM25: PCR TM25: PCR TM25: PCR TM24: Culture Plating TM26: Culture Plating TM27: Culture	Microbial Contaminants Test ID: T000224183 Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorador Panel) Method LOD Method 10 ⁰ CFU/25g TM25: PCR 10 ⁰ CFU/25g TM25: PCR 10 ⁰ CFU/25g TM25: PCR 10 ¹ CFU/25g TM24: Culture Plating 10 ¹ CFU/25g TM26: Culture Plating 10 ² CFU/25g TM27: Culture 10 ² CFU/25g	Microbial Contaminants14Oct2022Test ID: T000224183Started: 11Oct2022Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Microbial (Colorado Panel)Received: 10Oct2022MethodLODQuantitation RangeMethod10° CFU/25gNATM25: PCR10° CFU/25gNATM25: PCR10° CFU/25gNATM25: PCR10° CFU/25gNATM25: PCR10° CFU/25gNATM26: Culture Plating10° CFU/g1.0x10² - 1.5x10⁴TM26: Culture Plating10² CFU/g1.0x10² - 1.5x10⁴	Microbial Contaminants14Oct2022Test ID: T000224183Started: 11Oct2022Method(s): TM25 (qPCR) TM24, TM26, TM27 (Culture Plating): Wicrobial (Colorado Panel)Received: 10Oct2022Method LODLoDReceived: RangeTM25: PCR10° CFU/25gNATM25: PCR10° CFU/25gNATM25: PCR10° CFU/25gNATM25: PCR10° CFU/25gNATM25: PCR10° CFU/25gNATM24: Culture Plating10° CFU/25gNATM26: Culture Plating10° CFU/25gNATM26: Culture Plating10° CFU/25gNone DetectedTM27: Culture Plating10° CFU/25g1.0x10° - 1.5x10°None Detected			

Final Approval

PREPARED BY / DATE

Jacob Folkerts 14Oct2022 12:13:00 PM MDT

Eden Thompson

Eden Thompson-Wright 14Oct2022 05:56:00 PM MDT



APPROVED BY / DATE

https://results.botanacor.com/api/v1/coas/uuid/6cc3f394-8aa1-495a-a567-e75617602c0a

Definitions

* Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form. Examples: $10^2 = 100 \text{ CFU}$, $10^3 = 1,000 \text{ CFU}$, $10^4 = 10,000 \text{ CFU}$, $10^5 = 100,000 \text{ CFU}$ CFU/g = Colony Forming Units per Gram, LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation, LLOQ = Lower Limit of Quantitation STEC = Shiga Toxin-Producing E. coli

Testing results are based solely upon the sample submitted to SC Laboratories, Inc., in the condition it was received. SC Laboratories, Inc., warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of SC Laboratories, Inc. ISO/IEC 17025:2017 Accredited by A2LA.

