JOYORGANICS CERTIFICATE OF ANALYSIS

PRODUCT NAME: PRODUCT STRENGTH: TINCTURE BATCH: BEST BY DATE: HEMP EXTRACT LOT:

900mg	
220804C	
06/30/2024	
BCA-000389-220607	

Physical Atttributes

Test	Method	Specification	Results
Color	Joy Internal	Golden to Amber	PASS
Odor	Joy Internal	Characteristic - Olive and Hemp, Minty	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	$LOQ^*: \ge product strength mg / bottle$	939mg	PASS
Potency - D9-THC	HPLC-UV DAD	LOQ: <0.01% (broad spectrum)	Below LOQ	PASS
Expanded Pesticide Panel	HPLC-QQQ	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	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	ICP-MS	Arsenic (As): ≤1.5 ppm† Cadmium (Cd): ≤0.5 ppm Lead (Pb): ≤0.5 ppm Mercury (Hg): ≤1.5 ppm	Below LOQ	PASS
Mycotoxins	ICP-MS	Total Aflatoxins <20 ppb†† Afltoxin B1 < 5 ppb Ochratoxin < 5ppb	Below LOQ	PASS
Residual Solvents	GC-HS-MSD	LOQ: Complies with CDPHE 6 CCR 1010-21 Industrial Hemp Extract	Below LOQ	PASS
Level of Quantification *Colony Forming Units per Gram Parts Per Million †† Part Per Billion		Quality Certified	hAD	8/24/22

Name

Date

Examples: 10^2=100 10^3=1,000

Values expressed in scientific notation.





Prepared for: **JOY ORGANICS**

5042 Technology Parkway Ste. 500 FT. COLLINS, CO USA 80528

900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number: BCA-000389-220607	Test: Potency	Reported: 14Jun2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000209811	13Jun2022	N/A
	Method(s):	Received:	Status:
	TM14 (HPLC-DAD): Potency – Standard Cannabinoid Analysis	10Jun2022	Active

Cannabichromene (CBC) 0.017 0.054 ND ND Cannabichromenic Acid (CBCA) 0.015 0.049 ND ND Cannabidiol (CBD) 0.047 0.139 3.405 34.05 Cannabidiolic Acid (CBDA) 0.048 0.143 ND ND Cannabidiolic Acid (CBDA) 0.011 0.033 <loq< td=""> 0.12 Cannabidivarin (CBDV) 0.011 0.033 <loq< td=""> 0.12 Cannabigerol (CBG) 0.009 0.030 0.221 2.21 Cannabigerol (CBG) 0.012 0.040 ND ND Cannabigerol (CBG) 0.039 0.127 ND ND Cannabinol (CBN) 0.012 0.040 ND ND Cannabinol (CBN) 0.012 0.040 ND ND Cannabinolic Acid (CBNA) 0.027 0.087 ND ND Delta 8-Tetrahydrocannabinol (Delta 8-THC) 0.047 0.152 ND ND Delta 9-Tetrahydrocannabinolic Acid (THCA-A) 0.038 0.122 ND</loq<></loq<>	Cannabinoids	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)
Cannabidiol (CBD) 0.047 0.139 3.405 34.05 Cannabidiolic Acid (CBDA) 0.048 0.143 ND ND Cannabidivarin (CBDV) 0.011 0.033 <loq< td=""> 0.12 Cannabidivarini (CBDVA) 0.020 0.060 ND ND Cannabigerol (CBG) 0.009 0.030 0.221 2.21 Cannabigerol (CBG) 0.039 0.127 ND ND Cannabinol (CBN) 0.012 0.040 ND ND Cannabinol (CBN) 0.027 0.087 ND ND Cannabinolic Acid (CBAA) 0.027 0.087 ND ND Cannabinolic Acid (CBNA) 0.027 0.087 ND ND Cannabinolic Acid (CBNA) 0.047 0.152 ND ND Delta 8-Tetrahydrocannabinol (Delta 8-THC) 0.042 0.138 ND ND Delta 9-Tetrahydrocannabinolic Acid (THCA-A) 0.038 0.122 ND ND Tetrahydrocannabivarin (THCV) 0.009 0.028 ND<!--</td--><td>Cannabichromene (CBC)</td><td>0.017</td><td>0.054</td><td>ND</td><td>ND</td></loq<>	Cannabichromene (CBC)	0.017	0.054	ND	ND
Cannabidiolic Acid (CBDA) 0.048 0.143 ND ND Cannabidivarin (CBDV) 0.011 0.033 <loq< td=""> 0.12 Cannabidivarini (CBDV) 0.020 0.060 ND ND Cannabidivarinic Acid (CBDVA) 0.020 0.060 ND ND Cannabigerol (CBG) 0.009 0.030 0.221 2.21 Cannabigerolic Acid (CBGA) 0.039 0.127 ND ND Cannabinol (CBN) 0.012 0.040 ND ND Cannabinolic Acid (CBNA) 0.027 0.087 ND ND Cannabinol (CBN) 0.027 0.087 ND ND Cannabinolic Acid (CBNA) 0.027 0.087 ND ND Delta 8-Tetrahydrocannabinol (Delta 8-THC) 0.047 0.152 ND ND Delta 9-Tetrahydrocannabinolic Acid (THCA-A) 0.038 0.122 ND ND Delta 9-Tetrahydrocannabinolic Acid (THCA-A) 0.033 0.108 ND ND Tetrahydrocannabivarinic Acid (THCVA) 0.033<td>Cannabichromenic Acid (CBCA)</td><td>0.015</td><td>0.049</td><td>ND</td><td>ND</td></loq<>	Cannabichromenic Acid (CBCA)	0.015	0.049	ND	ND
Cannabidivarin (CBDV) 0.011 0.033 <loq< th=""> 0.12 Cannabidivarinic Acid (CBDVA) 0.020 0.060 ND ND Cannabigerol (CBG) 0.009 0.030 0.221 2.21 Cannabigerolic Acid (CBGA) 0.039 0.127 ND ND Cannabigerolic Acid (CBGA) 0.012 0.040 ND ND Cannabinol (CBN) 0.012 0.040 ND ND Cannabinolic Acid (CBNA) 0.027 0.087 ND ND Delta 8-Tetrahydrocannabinol (Delta 8-THC) 0.047 0.152 ND ND Delta 9-Tetrahydrocannabinol (Delta 9-THC) 0.042 0.138 ND ND Delta 9-Tetrahydrocannabinolic Acid (THCA-A) 0.038 0.122 ND ND Tetrahydrocannabinolic Acid (THCVA) 0.033 0.108 ND ND Tetrahydrocannabivarinic Acid (THCVA) 0.033 0.108 ND ND Tetrahydrocannabivarinic Acid (THCVA) 0.033 0.108 ND ND</loq<>	Cannabidiol (CBD)	0.047	0.139	3.405	34.05
Cannabidivarinic Acid (CBDVA) 0.020 0.060 ND ND Cannabigerol (CBG) 0.009 0.030 0.221 2.21 Cannabigerolic Acid (CBGA) 0.039 0.127 ND ND Cannabinol (CBN) 0.012 0.040 ND ND Cannabinoli (CBN) 0.027 0.087 ND ND Cannabinoli Acid (CBNA) 0.027 0.087 ND ND Delta 8-Tetrahydrocannabinol (Delta 8-THC) 0.047 0.152 ND ND Delta 9-Tetrahydrocannabinol (Delta 9-THC) 0.038 0.122 ND ND Delta 9-Tetrahydrocannabinolic Acid (THCA-A) 0.038 0.122 ND ND Tetrahydrocannabinolic Acid (THCA-A) 0.033 0.108 ND ND Tetrahydrocannabivarin (THCV) 0.033 0.108 ND ND Total Cannabinoids 3.638 36.38 36.38 36.38	Cannabidiolic Acid (CBDA)	0.048	0.143	ND	ND
Cannabigerol (CBG) 0.009 0.030 0.221 2.21 Cannabigerolic Acid (CBGA) 0.039 0.127 ND ND Cannabinol (CBN) 0.012 0.040 ND ND Cannabinolic Acid (CBNA) 0.027 0.087 ND ND Delta 8-Tetrahydrocannabinol (Delta 8-THC) 0.047 0.152 ND ND Delta 9-Tetrahydrocannabinol (Delta 9-THC) 0.042 0.138 ND ND Delta 9-Tetrahydrocannabinolic Acid (THCA-A) 0.038 0.122 ND ND Tetrahydrocannabivarin (THCV) 0.009 0.028 ND ND Tetrahydrocannabivarinic Acid (THCVA) 0.033 0.108 ND ND	Cannabidivarin (CBDV)	0.011	0.033	<loq< td=""><td>0.12</td></loq<>	0.12
Cannabigerolic Acid (CBGA)0.0390.127NDNDCannabinol (CBN)0.0120.040NDNDCannabinolic Acid (CBNA)0.0270.087NDNDDelta 8-Tetrahydrocannabinol (Delta 8-THC)0.0470.152NDNDDelta 9-Tetrahydrocannabinol (Delta 9-THC)0.0420.138NDNDDelta 9-Tetrahydrocannabinolic Acid (THCA-A)0.0380.122NDNDTetrahydrocannabinolic Acid (THCV)0.0090.028NDNDTetrahydrocannabinolic Acid (THCVA)0.0330.108NDNDTotal Cannabinoids3.63836.3836.38	Cannabidivarinic Acid (CBDVA)	0.020	0.060	ND	ND
Cannabinol (CBN)0.0120.040NDNDCannabinolic Acid (CBNA)0.0270.087NDNDDelta 8-Tetrahydrocannabinol (Delta 8-THC)0.0470.152NDNDDelta 9-Tetrahydrocannabinol (Delta 9-THC)0.0420.138NDNDDelta 9-Tetrahydrocannabinolic Acid (THCA-A)0.0380.122NDNDTetrahydrocannabivarin (THCV)0.0090.028NDNDTetrahydrocannabivarinic Acid (THCVA)0.0330.108NDNDTotal Cannabinoids3.63836.3836.38	Cannabigerol (CBG)	0.009	0.030	0.221	2.21
Cannabinolic Acid (CBNA)0.0270.087NDNDDelta 8-Tetrahydrocannabinol (Delta 8-THC)0.0470.152NDNDDelta 9-Tetrahydrocannabinol (Delta 9-THC)0.0420.138NDNDDelta 9-Tetrahydrocannabinolic Acid (THCA-A)0.0380.122NDNDTetrahydrocannabivarin (THCV)0.0090.028NDNDTetrahydrocannabivarinic Acid (THCVA)0.0330.108NDNDTotal Cannabinoids3.63836.38	Cannabigerolic Acid (CBGA)	0.039	0.127	ND	ND
Delta 8-Tetrahydrocannabinol (Delta 8-THC)0.0470.152NDNDDelta 9-Tetrahydrocannabinol (Delta 9-THC)0.0420.138NDNDDelta 9-Tetrahydrocannabinolic Acid (THCA-A)0.0380.122NDNDTetrahydrocannabivarin (THCV)0.0090.028NDNDTetrahydrocannabivarinic Acid (THCVA)0.0330.108NDNDTotal Cannabinoids3.63836.38	Cannabinol (CBN)	0.012	0.040	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9-THC)0.0420.138NDNDDelta 9-Tetrahydrocannabinolic Acid (THCA-A)0.0380.122NDNDTetrahydrocannabivarin (THCV)0.0090.028NDNDTetrahydrocannabivarinic Acid (THCVA)0.0330.108NDNDTotal Cannabinoids3.63836.38	Cannabinolic Acid (CBNA)	0.027	0.087	ND	ND
Delta 9-Tetrahydrocannabinolic Acid (THCA-A)0.0380.122NDNDTetrahydrocannabivarin (THCV)0.0090.028NDNDTetrahydrocannabivarinic Acid (THCVA)0.0330.108NDNDTotal Cannabinoids3.63836.38	Delta 8-Tetrahydrocannabinol (Delta 8-THC)	0.047	0.152	ND	ND
Tetrahydrocannabivarin (THCV)0.0090.028NDNDTetrahydrocannabivarinic Acid (THCVA)0.0330.108NDNDTotal Cannabinoids3.63836.38	Delta 9-Tetrahydrocannabinol (Delta 9-THC)	0.042	0.138	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)0.0330.108NDNDTotal Cannabinoids3.63836.38	Delta 9-Tetrahydrocannabinolic Acid (THCA-A)	0.038	0.122	ND	ND
Total Cannabinoids 3.638 36.38	Tetrahydrocannabivarin (THCV)	0.009	0.028	ND	ND
	Tetrahydrocannabivarinic Acid (THCVA)	0.033	0.108	ND	ND
Total Potential THC ND ND	Total Cannabinoids			3.638	36.38
	Total Potential THC			ND	ND
Total Potential CBD3.40534.05	Total Potential CBD			3.405	34.05

Final Approval

PREPARED BY / DATE

Ryan Weems 14Jun2022 12:07:00 PM MDT

APPROVED BY / DATE

Karen Winternheimer 14Jun2022 12:11:00 PM MDT



Definitions

% = % (w/w) = Percent (weight of analyte / weight of product). ND = None Detected (defined by dynamic range of the method).

Total Potential Delta 9-THC or CBD is calculated to take into account the loss of a carboxyl group during decarboxylation step, using the following formulas: Total Potential Delta 9-THC = Delta 9-THC + (Delta 9-THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877)).

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.





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



Report Number:	22-009427/D005.R000
Report Date:	08/16/2022
ORELAP#:	OR100028
Purchase Order:	22082A + 220804C
Received:	08/09/22 10:18

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2206728	08/12/22 AOAC 990.12 (Petrifilm) ^b	
E.coli	< LOQ		cfu/g	10	2206726	08/12/22 AOAC 991.14 (Petrifilm) ^b	
Total Coliforms	< LOQ		cfu/g	10	2206726	08/12/22 AOAC 991.14 (Petrifilm) ^b	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2206727	08/13/22 AOAC 2014.05 (RAPID) ^b	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2206727	08/13/22 AOAC 2014.05 (RAPID) ^b	
Salmonella spp. by PCR	Negative		/5g		2206731	08/11/22 AOAC 2020.02 ^b	I
EHEC including STEC	Negative		/5g		2206734	08/11/22 AOAC RI 121806 ^b	I

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 Page 3 of 6

 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 333-007-0430





Prepared for: JOY ORGANICS

5042 Technology Parkway Ste. 500 FT. COLLINS, CO USA 80528

900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number:	Test:	Reported:	USDA License:
BCA-000389-220607	Residual Solvents	14Jun2022	N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000209814	14Jun2022	N/A
	Method(s):	Received:	Status:
	TM04 (GC-MS): Residual Solvents	10Jun2022	Active

Residual Solvents	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	91 - 1825	ND	
Butanes (lsobutane, n-Butane)	139 - 2779	ND	
Methanol	57 - 1131	ND	-
Pentane	81 - 1620	ND	
Ethanol	82 - 1640	ND	
Acetone	88 - 1752	ND	-
Isopropyl Alcohol	93 - 1850	ND	
Hexane	6 - 114	ND	-
Ethyl Acetate	91 - 1828	ND	-
Benzene	0.2 - 3.7	ND	-
Heptanes	89 - 1783	ND	_
Toluene	17 - 332	ND	
Xylenes (m,p,o-Xylenes)	121 - 2428	ND	0

Final Approval

PREPARED BY / DATE

Jacob Miller 14Jun2022 05:51:00 PM MDT

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APPROVED BY / DATE

Ryan Weems 14Jun2022 05:55:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/8bdc2347-eb59-41b2-b5b8-b052adf9cdbd

Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.







Prepared for: JOY ORGANICS

5042 Technology Parkway Ste. 500 FT. COLLINS, CO USA 80528

900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number: BCA-000389-220607	Test: Mycotoxins	Reported: 14Jun2022	USDA License: N/A
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000209815	13Jun2022	N/A
	Method(s):	Received:	Status:
	TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	10Jun2022	Active
Mycotoxins	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3.75 - 130.56	ND	N/A
Aflatoxin B1	1.02 - 32.57	ND	
Aflatoxin B2	1.05 - 32.35	ND	
Aflatoxin G1	0.99 - 32.70	ND	
Aflatoxin G2 1.05 - 32.66		ND	
Total Aflatoxins (B1, B2, G1, and	d G2)	ND	

Final Approval

PREPARED BY / DATE

Jacob Miller 14Jun2022 02:49:00 PM MDT

Ween

APPROVED BY / DATE

Ryan Weems 14Jun2022 02:52:00 PM MDT



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Definitions ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.







Prepared for: JOY ORGANICS

5042 Technology Parkway Ste. 500 FT. COLLINS, CO USA 80528

900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number:	Test:	Reported:	USDA License:
BCA-000389-220607	Heavy Metals	14Jun2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Unit Co	T000209813	14Jun2022	NA
	Method(s):	Received:	Status:
	TM19 (ICP-MS): Heavy Metals	10Jun2022	NA

Heavy Metals	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.05 - 4.58	ND	
Cadmium	0.05 - 4.53	ND	
Mercury	0.04 - 4.43	ND	
Lead	0.05 - 4.66	ND	

Final Approval

PREPARED BY / DATE

Ryan Weems 14Jun2022 02:50:00 PM MDT

annuel Wordon

APPROVED BY / DATE

Daniel Weidensaul 14Jun2022 02:53:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/f6748d30-6fdd-4791-80a7-c909ec3f3a99

Definitions ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.





Prepared for:

JOY ORGANICS

5042 Technology Parkway Ste. 500 FT. COLLINS, CO USA 80528

900 mg 5G Broad Spectrum Tincture Bulk in EVOO

Batch ID or Lot Number:	Test:	Reported:	USDA License:
BCA-000389-220607	Pesticides	16Jun2022	NA
Matrix:	Test ID:	Started:	Sampler ID:
Concentrate	T000209812	14Jun2022	NA
	Method(s):	Received:	Status:
	TM17 (LC-QQ LC MS/MS)	10Jun2022	NA

Pesticides	Dynamic Range (ppb)	Result (ppb)		Dynamic Range (ppb)	Result (ppl
Abamectin	365 - 2660	ND	Malathion	304 - 2758	ND
Acephate	45 - 2774	ND	Metalaxyl	51 - 2788	ND
Acetamiprid	43 - 2778	ND	Methiocarb	39 - 2735	ND
Azoxystrobin	40 - 2739	ND	Methomyl	42 - 2747	ND
Bifenazate	42 - 2765	ND	MGK 264 1	187 - 1618	ND
Boscalid	15 - 2744	ND	MGK 264 2	129 - 1129	ND
Carbaryl	40 - 2776	ND	Myclobutanil	37 - 2661	ND
Carbofuran	43 - 2761	ND	Naled	28 - 2666	ND
Chlorantraniliprole	46 - 2731	ND	Oxamyl	3 - 2768	ND
Chlorpyrifos	47 - 2776	ND	Paclobutrazol	41 - 2732	ND
Clofentezine	306 - 2776	ND	Permethrin	340 - 2681	ND
Diazinon	298 - 2777	ND	Phosmet	41 - 2752	ND
Dichlorvos	311 - 2758	ND	Prophos	290 - 2708	ND
Dimethoate	45 - 2766	ND	Propoxur	39 - 2744	ND
E-Fenpyroximate	296 - 2737	ND	Pyridaben	302 - 2767	ND
Etofenprox	42 - 2726	ND	Spinosad A	36 - 2242	ND
Etoxazole	299 - 2708	ND	Spinosad D	55 - 497	ND
Fenoxycarb	45 - 2737	ND	Spiromesifen	306 - 2722	ND
Fipronil	39 - 2733	ND	Spirotetramat	292 - 2784	ND
Flonicamid	4 - 2732	ND	Spiroxamine 1	17 - 1160	ND
Fludioxonil	260 - 2633	ND	Spiroxamine 2	21 - 1502	ND
Hexythiazox	49 - 2737	ND	Tebuconazole	259 - 2755	ND
Imazalil	286 - 2760	ND	Thiacloprid	41 - 2763	ND
Imidacloprid	51 - 2800	ND	Thiamethoxam	45 - 2752	ND
Kresoxim-methyl	53 - 2822	ND	Trifloxystrobin	41 - 2736	ND

Final Approval

PREPARED BY / DATE

Karen Winternheimer 16Jun2022 04:48:00 PM MDT

Danuel Wordensan

APPROVED BY / DATE

Daniel Weidensaul 16Jun2022 05:01:00 PM MDT



https://results.botanacor.com/api/v1/coas/uuid/f3024b12-9b3e-454e-8b15-031fa6dc723d

Definitions

ND = None Detected (defined by dynamic range of the method) Dynamic Range = Limit of Quantitation (LOQ) through Upper Limit of Method Range

ppb = Parts Per Billion

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC 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 Botanacor Laboratories, LLC. ISO/IEC 17025:2017 Accredited by A2LA.

