# **Certificate of Quality Assurance**

PRODUCT NAME: Tranquil Mint Tincture

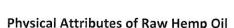
PRODUCT STRENGTH: 500 mg LOT NUMBER: TM500-T116 OIL BATCH NUMBER: CONO19-68 DATE OF MANUFACTURE: 6/6/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/6/2019

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Grapeseed Oil, Hempseed Oil, Peppermint Oil



Thysical / termoutes of have fremp on							
Attribute	Acceptance Criteria	Result					
Appearance	Viscous Dark Amber Oil Possible Crystal Formation	Conforms					
Aroma	Characteristic Hemp Aroma	Conforms					
Dissolution	Not Cloudy or Turbid, Characteristic Color	Conforms					
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <2000 cfu/g	Conforms					

# Cannabinoid Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	83.35
CBG	<0.03
CBN	<0.03
THC	ND
СВС	<0.03
THC-A	ND
CBD-A	<0.03

# Pesticides\*

Compound	Result	Compound	Result
Acequinocil	ND	Spinosad	ND
Pyrethrium	ND	Spirotetramat	ND
Spiromesifin	ND	Bifenazate	ND
Abamectin	ND	Fenoxycarb	ND
Imidacloprid	ND	Paclobutrazol	ND

# beam

### Terpene Results\*

Compound	Weight %	Compound	Weight %
β-Bisabolene	1.0-3.0 Camphene		0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ-3-Carene	< 0.1

#### Residual Solvents\*

Solvent	Weight %
Acetone	Compliant with USP<467>
Butane	Compliant with USP<467>
Ethanol	Compliant with USP<467>
Hexane	Compliant with USP<467>
Isobutane	Compliant with USP<467>
Isopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

# **Certificate of Quality Assurance**

PRODUCT NAME: Tranquil Mint Tincture

**PRODUCT STRENGTH:** 500 mg **LOT NUMBER:** TM500-T116

OIL BATCH NUMBER: CONO19-68

DATE OF MANUFACTURE: 6/6/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/6/2019

**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Grapeseed Oil, Hempseed Oil, Peppermint Oil

# Heavy Metals\*

Metal	Result
Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

### **Analysis Results for Finished Product**

Attribute	Acceptance Criteria	Result	
Appearance	Clear Colorless to Light Yellow Liquid	Conforms	
Aroma	Characteristic Mint Flavor	Conforms	
Cannabidiol Content	95 to 110% of Label Claim	Conforms	
THC Content	None Detected	Conforms	

\* Results based on testing of multiple batches of hemp oil raw material.

Certified by:

Matthew Plenert, Ph.D

Head Chemist and Quality Manager

Date

6-24-19





Job Number: 19-006793

Report Number: 19-006793-00

Report Date: 06/20/2019

ORELAP#: OR100028

**Purchase Order:** 

**Received:** 06/13/19 07:23

Product identity:	TM500-T116			Client/Metrc ID:					
Laboratory ID:	19-006793-0001	19-006793-0001			Sample Date:				
			Su	mmary					
Potency:									
Analyte per 30ml	Result	Limits	Units	LOQ	CBD-Total per 30ml	552 mg/30ml			
CBD per 30ml	552		mg/30ml	27.6					
					THC-Total per 30ml	< 51.888 mg/30ml			
Pesticides:									
All analytes passing	and less than LOQ.								
Metals:									
Less than LOQ for a	ll analytes.								
Microbiology:									
Less than LOQ for a	ll analytes.								





Job Number: 19-006793

Report Number: 19-006793-00

Report Date: 06/20/2019

ORELAP#: OR100028

**Purchase Order:** 

**Received:** 06/13/19 07:23

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Customer: Beam Organics

Product identity: TM500-T116

Client/Metrc ID:

Sample Date:

Laboratory ID: 19-006793-0001
Relinquished by: Received By Mail

**Temp:** 22.9 °C **Serving Size #1:** 27.6 g

# Sample Results

Potency per 30ml			Batch: 1905	386			
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes
CBC per 30ml <sup>†</sup>	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
CBC-A per 30ml <sup>†</sup>	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
CBC-Total per 30ml <sup>†</sup>	< LOQ		mg/30ml	51.9	06/19/19	J AOAC 2015 V98-6	
CBD per 30ml	552		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
CBD-A per 30ml	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
CBD-Total per 30ml	552		mg/30ml	51.9	06/19/19	J AOAC 2015 V98-6	
CBDV per 30ml <sup>†</sup>	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
CBDV-A per 30ml <sup>†</sup>	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
CBDV-Total per 30ml <sup>†</sup>	< LOQ		mg/30ml	51.6	06/19/19	J AOAC 2015 V98-6	
CBG per 30ml <sup>†</sup>	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
CBG-A per 30ml <sup>†</sup>	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
CBG-Total per 30ml <sup>†</sup>	< LOQ		mg/30ml	51.9	06/19/19	J AOAC 2015 V98-6	
CBL per 30ml <sup>†</sup>	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
CBN per 30ml	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
$\Delta 8$ -THC per $30$ mI $^{\dagger}$	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
Δ9-THC per 30ml	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
THC-A per 30ml	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
THC-Total per 30ml	< LOQ		mg/30ml	51.9	06/19/19	J AOAC 2015 V98-6	
THCV per 30ml <sup>†</sup>	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
THCV-A per 30ml <sup>†</sup>	< LOQ		mg/30ml	27.6	06/19/19	J AOAC 2015 V98-6	
THCV-Total per 30ml <sup>†</sup>	< LOQ		mg/30ml	51.6	06/19/19	J AOAC 2015 V98-6	





 Job Number:
 19-006793

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 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

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OR100028

Microbiology									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
E.coli	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X	
Total Coliforms	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X	
Mold	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	Χ	
Yeast	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	X	

Docticidos	Mothod	۸۸۸۸	2007 04 9 EN	15662 (mad)	Unite ma/ka Betak	1005212	Analu	70 06/10/10 00:42 444
Pesticides Analyte	Result		LOQ Status	, ,	Units mg/kg Batch Analyte	Result		ze 06/19/19 08:13 AM s LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass	Notes	Acephate	< LOQ	0.40	0.250 pass
		2.0	•		·			·
Acequinocyl	< LOQ		1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ < LOQ	0.40	0.200 pass		Azoxystrobin Bifenthrin	< LOQ < LOQ	0.20	0.100 pass
Bifenazate		0.20	0.100 pass				0.20	0.100 pass
Boscalid	< LOQ	0.40	0.100 pass		Carbaryl	< LOQ	0.20	0.100 pass
Carbofuran	< LOQ	0.20	0.100 pass		Chlorantraniliprole	< LOQ	0.20	0.100 pass
Chlorfenapyr	< LOQ	1.0	0.500 pass		Chlorpyrifos	< LOQ	0.20	0.100 pass
Clofentezine	< LOQ	0.20	0.100 pass		Cyfluthrin (incl.	< LOQ	1.0	0.500 pass
Cypermethrin	< LOQ	1.0	0.500 pass		Daminozide	< LOQ	1.0	0.500 pass
Diazinon	< LOQ	0.20	0.100 pass		Dichlorvos	< LOQ	1.0	0.500 pass
Dimethoate	< LOQ	0.20	0.100 pass		Ethoprophos	< LOQ	0.20	0.100 pass
Etofenprox	< LOQ	0.40	0.200 pass		Etoxazole	< LOQ	0.20	0.100 pass
Fenoxycarb	< LOQ	0.20	0.100 pass		Fenpyroximate	< LOQ	0.40	0.200 pass
Fipronil	< LOQ	0.40	0.200 pass		Flonicamid	< LOQ	1.0	0.400 pass
Fludioxonil	< LOQ	0.40	0.200 pass		Hexythiazox	< LOQ	1.0	0.400 pass
Imazalil	< LOQ	0.20	0.100 pass		Imidacloprid	< LOQ	0.40	0.200 pass
Kresoxim-methyl	< LOQ	0.40	0.200 pass		Malathion	< LOQ	0.20	0.100 pass
Metalaxyl	< LOQ	0.20	0.100 pass		Methiocarb	< LOQ	0.20	0.100 pass
Methomyl	< LOQ	0.40	0.200 pass		MGK-264	pending	0.20	0.100 pass
Myclobutanil	< LOQ	0.20	0.100 pass		Naled	< LOQ	0.50	0.250 pass
Oxamyl	< LOQ	1.0	0.500 pass		Paclobutrazole	< LOQ	0.40	0.200 pass
Parathion-Methyl	< LOQ	0.20	0.200 pass		Permethrin	< LOQ	0.20	0.100 pass
Phosmet	< LOQ	0.20	0.100 pass		Piperonyl butoxide	< LOQ	2.0	1.00 pass
Prallethrin	< LOQ	0.20	0.100 pass		Propiconazole	< LOQ	0.40	0.200 pass
Propoxur	< LOQ	0.20	0.100 pass		Pyrethrin I (total)	< LOQ	1.0	0.500 pass
Pyridaben	< LOQ	0.20	0.100 pass		Spinosad	< LOQ	0.20	0.100 pass
Spiromesifen	< LOQ	0.20	0.100 pass		Spirotetramat	< LOQ	0.20	0.100 pass
Spiroxamine	< LOQ	0.40	0.200 pass		Tebuconazole	< LOQ	0.40	0.200 pass
Thiacloprid	< LOQ	0.20	0.100 pass		Thiamethoxam	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass					





Job Number: 19-006793

Report Number: 19-006793-00

Report Date: 06/20/2019

**Purchase Order:** 

ORELAP#:

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OR100028

Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Cadmium	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Lead	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Mercury	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	X





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Report Date: 06/20/2019

ORELAP#: OR100028

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#### This report cannot be used for ODA, OHA or OLCC compliance requirements.

#### **Abbreviations**

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

### Units of Measure

cfu/g = Colony forming units per gram g = Gram mg/kg = Milligram per kilogram = parts per million (ppm) mg/27.6g = Milligram per 27.6g % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

#### Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager



Effective 03/06/2019 Revised 03/06/2019

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



Job Number:

19-006793

**Report Number:** 

19-006793-00

**Report Date:** 

06/20/2019

ORELAP#:

OR100028

**Purchase Order:** 

Received: 06/13/19 07:23

This report cannot be used for ODA, OHA or OLCC compliance requirements.

12423 NE Whitaker Way F	Portland OF	R 97230	p.503	-254-17	794	C	anna	bis (	Chair	of (	Custo	ody	Reco	rd	10-10	21.7	0.0	PIXIS Labs
Company: BEAM	-						1			Analy	sis Re	eque	sted	1	14-0	00	43 ORELA	P ID: OR100028
Contact: n/a				S						П		Ť	_	4	Homas	Matala	100.4	Purchase Order Number:
Address: n/a				379 compounds		- 97									ppm	wetais	LOQ .1	Project Number:
<sub>Email:</sub> n/a			1	odu														Project Name:
<sub>Phone:</sub> n/a	Fax:		g g	00 6,							Ē				DI			☐ Report Instructions:
Processor's License:			OR 59 compounds	1		ents	_			ind Mold	Micro: E. Coli and Total Coliform				Please to Darc accoun	ie Mora	nd reports an's	☐ Send to State - METRC ☑ Email Final Results: ☐ Fax Final Results ☐ Cash/Check/CC/Net 30
Field ID	Date/ Colle	Time	Pesticides – (	Pesticide Multi-Residue	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E.Coli	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Other:  Comments/Metrc ID
ГМ500-Т116			x		x					x	х	x			Oil	7. 0.8.1.	30ml	- The state of the
NAT500-T117			x		x					x	X				Oil		30ml	0.9213 0.9211
M1000-T118			x		x	100				x	X				Oil		30ml	0.9211
M1500-T119			x	>	x					×	x	_			Oil		30ml	0.9239
NAT1000-T120			x	>	ĸ					x	х				Oil		30ml	0.9235
NAT1500-T121			х	>	<					x	х			_	Oil		30ml	0.9262
															0.11	-	Somi	0.9262
ollected By:	Relinqu	ished B	y:			Date		Time		Recei	ved by:				Date	1		
☑Standard (5 day)	David	Boaz				5/12		2PM			2	_				0	OI:	O Use Only: ent Alias:
□Rush (3-4 day) (1.5x Standard)	71.	8.	2			6/1,		101	,						Dlys	90 (	Pro	ler Number: per Container
Priority Rush (2 day) (2x Standard)											1						Jen Ship	nple Condition nperature: pped Via: Old Service lence of cooling:

www.pixislabs.com

www.columbiafoodlab.com

Page 1 of 2



Columbia Food

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



Columbia Food/Pixis Labs

Sample Receipt Form

Job Number: 19-006793

Report Number: 19-006793-00

**Report Date:** 06/20/2019

OR100028

**Purchase Order:** 

ORELAP#:

Revision: 1.00 Document Control: CF015 Revised: 04/25/2019 Effective: 05/11/2019

**Received:** 06/13/19 07:23

es A Citientos Chippiny	
Job Number: 19-006793 Search Name:	
Package/Cooler opened on (if different than received date/time) Dates 124	Time: 07:23
Received By (Initials):	
Were custody seals on outside of the package/cooler?     If YES, how many and where?	YES NO NA
Were signature and date correct?	YES NO NA
2) Were custody papers included in the package/cooler?	YES NO NA
3) Were custody papers properly filled out (ink, sign, date)?	FES NO NA
4) Did you sign custody papers in the appropriate place?	YES NO NA
5) How was the package/cooler delivered?	
UPS FEDEX USPS CLIENT COURIER	OTHER:
Tracking Number (written in or copy of shipping label):	2880093
6) Was packing material used?	YES NO NA
Peanuts Bubble Wrap Foam Paper Other:	
7) Was sufficient ice used (if appropriate)? What kind?	YES NO NA
Blue Ice Ice Cooler Packs Dry Ice	none
8) Were all sample containers sealed in separate plastic bags?	YES NO NA
9) Did all sample containers arrive in good condition?	(YES) NO NA
10) Were all sample container labels complete?	YES NO NA
11) Did all sample container labels and tags agree with the coc?	YES NO NA
12) Were correct sample containers used for the tests indicated?	YES NO NA
13) Were VOA vials checked for absence of air bubbles (note if found)?	YES NO (NA)
14) Was a sufficient amount of sample sent in each sample container?	YES NO NA
15) Temperature of the samples upon receipt (See SOP for proper temps)	20° € € € € € € € € € € € € € € € € € € €
16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf	Cannabis Table Other:
Explain any discrepancies:	
Page <u>2</u> of <u>2</u>	





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

OR100028

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN	15662	Units: mg/Kg	Batch ID: 1905312				
Method Blank			Laboratory Co	ntrol Samp	ole		
Analyte	Blank Result	Blank Limits Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	ND	< 0.200	1.150	1.000	115.0	70 - 130	
Acequinocyl	ND	< 1.000	4.040	4.000	101.0	70 - 130	
Acetamiprid	ND	< 0.100	0.413	0.400	103.3	70 - 130	
Aldicarb	ND	< 0.200	0.808	0.800	101.0	70 - 130	
Abamectin	ND	< 0.288	0.926	1.000	92.6	70 - 130	
Azoxystrobin	ND	< 0.100	0.395	0.400	98.8	70 - 130	
Bifenazate	ND	< 0.100	0.395	0.400	98.8	70 - 130	
Bifenthrin	ND	< 0.100	0.386	0.400	96.5	70 - 130	
Boscalid	ND	< 0.100	0.801	0.800	100.1	70 - 130	i –
Carbaryl	ND	< 0.100	0.401	0.400	100.3	70 - 130	
Carbofuran	ND	< 0.100	0.403	0.400	100.8	70 - 130	
Chlorantraniliprol	ND	< 0.100	0.357	0.400	89.3	70 - 130	
Chlorfenapyr	ND	< 1.000	1.730	2.000	86.5	70 - 130	
Chlorpyrifos	ND	< 0.100	0.383	0.400	95.8	70 - 130	
Clofentezine	ND	< 0.100	0.399	0.400	99.8	70 - 130	
Cyfluthrin	ND	< 1.000	1.800	2.000	90.0	30 - 150	
Cypermethrin	ND	< 1.000	2.050	2.000	102.5	70 - 130	l
Daminozide	ND	< 1.000	2.140	2.000	107.0	30 - 150	l
Diazinon	ND	< 0.100	0.403	0.400	100.8	70 - 130	
Dichlorvos	ND	< 0.500	1.920	2.000	96.0	70 - 130	
Dimethoat	ND	< 0.100	0.404	0.400	101.0	70 - 130	
Ethoprophos	ND	< 0.100	0.408	0.400	102.0	70 - 130	
Etofenprox	ND	< 0.100	0.789	0.800	98.6	70 - 130	
Etoxazol	ND	< 0.100	0.393	0.400	98.3	70 - 130	
enoxycarb	ND	< 0.100	0.387	0.400	96.8	70 - 130	
enpyroximat	ND	< 0.100	0.783	0.800	97.9	70 - 130	
ipronil	ND	< 0.100	0.763	0.800	95.4	70 - 130	
lonicamid	ND	< 0.400	1.030	1.000	103.0	70 - 130	l
ludioxonil	ND	< 0.100	0.739	0.800	92.4	70 - 130	
Hexythiazox	ND	< 0.400	1.010	1.000	101.0	70 - 130	
mazalil	ND	< 0.100	0.421	0.400	105.3	70 - 130	
midacloprid	ND	< 0.200	0.784	0.800	98.0	70 - 130	
Kresoxim-Methyl	ND	< 0.100	0.819	0.800	102.4	70 - 130	
Malathion	ND	< 0.100	0.390	0.400	97.5	70 - 130	
Metalaxyl	ND	< 0.100	0.388	0.400	97.0	70 - 130	
Methiocarb	ND	< 0.100	0.398	0.400	99.5	70 - 130	
Methomyl	ND	< 0.200	0.860	0.800	107.5	70 - 130	
MGK 264	ND	< 0.100	0.400	0.400	100.0	70 - 130	
Myclobutanil	ND	< 0.100	0.394	0.400	98.5	70 - 130	
Naled	ND	< 0.200	0.962	1.000	96.2	70 - 130	
Oxamyl	ND	< 0.400	2.020	2.000	101.0	70 - 130	
Paclobutrazol	ND	< 0.200	0.797	0.800	99.6	70 - 130	
Parathion Methyl	ND	< 0.200	0.758	0.800	94.8	30 - 150	
Permethrin	ND	< 0.100	0.400	0.400	100.0	70 - 130	
Phosmet	ND	< 0.100	0.407	0.400	101.8	70 - 130	l
Piperonyl butoxide	ND	< 1.000	1.910	2.000	95.5	70 - 130	
Prallethrin	ND	< 0.200	0.203	0.200	101.5	70 - 130	i -
Propiconazole	ND	< 0.200	0.805	0.800	100.6	70 - 130	
ropoxur	ND	< 0.100	0.402	0.400	100.5	70 - 130	l
yrethrins	ND	< 0.500	0.302	0.284	106.3	70 - 130	
yridaben	ND	< 0.100	0.547	0.400	136.8	70 - 130	Q1
pinosad	ND	< 0.100	0.423	0.388	109.0	70 - 130	
piromesifen	ND	< 0.100	0.364	0.400	91.0	70 - 130	
pirotetramat	ND	< 0.100	0.392	0.400	98.0	70 - 130	l
piroxamine	ND	< 0.100	0.859	0.800	107.4	70 - 130	
ebuconazol	ND	< 0.200	0.756	0.800	94.5	70 - 130	
Thiacloprid	ND	< 0.100	0.414	0.400	103.5	70 - 130	
hiamethoxam	ND	< 0.100	0.418	0.400	104.5	70 - 130	1
Frifloxystrobin	ND ND	< 0.100	0.389	0.400	97.3	70 - 130	





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

OR100028

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

#### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 1	5662		Units:	mg/Kg				Batch	ID: 19053	12
Matrix Spike/Matrix	Spike Duplic	ate Reco	veries			S	ample ID:	19-006793-0002		
Analyte	Result	MS Res	MSD Res	Spike	RP	PD%		MSD % Rec	Limits	Notes
Acephate	0.000	0.745	0.860	1.000	14.3	< 30	74.5	86.0	50 - 150	
Acequinocyl	0.000	8.480	8.850	4.000	4.3	< 30	212.0	221.3	50 - 150	Q1
Acetamiprid	0.000	0.374	0.417	0.400	10.9	< 30	93.5	104.3	50 - 150	
Aldicarb	0.000	0.733	0.835	0.800	13.0	< 30	91.6	104.4	50 - 150	
Abamectin	0.000	1.220	1.290	1.000	5.6	< 30	122.0	129.0	50 - 150	
Azoxystrobin	0.012	0.420	0.451	0.400	7.1	< 30	102.0	109.8	50 - 150	
Bifenazate	0.000	0.388	0.404	0.400	4.0	< 30	97.0	101.0	50 - 150	
Bifenthrin	0.000	1.490	1.460	0.400	2.0	< 30	372.5	365.0	50 - 150	Q1
3oscalid	0.081	0.886	0.897	0.800	1.2	< 30	100.6	102.0	50 - 150	
Carbaryl	0.000	0.395	0.432	0.400	8.9	< 30	98.8	108.0	50 - 150	
Carbofuran	0.000	0.385	0.423	0.400	9.4	< 30	96.3	105.8	50 - 150	
Chlorantraniliprol	0.000	0.356	0.343	0.400	3.7	< 30	89.0	85.8	50 - 150	
Chlorfenapyr	0.000	3.010	3.220	2.000	6.7	< 30	150.5	161.0	50 - 150	Q1
Chlorpyrifos	0.000	0.519	0.539	0.400	3.8	< 30	129.8	134.8	50 - 150	
Clofentezine	0.000	0.448	0.491	0.400	9.2	< 30	112.0	122.8	50 - 150	
yfluthrin	0.000	3.760	3.800	2.000	1.1	< 30	188.0	190.0	30 - 150	Q1
Cypermethrin	0.000	2.720	2.920	2.000	7.1	< 30	136.0	146.0	50 - 150	
Daminozide	0.000	1.840	2.070	2.000	11.8	< 30	92.0	103.5	30 - 150	
Diazinon	0.000	0.407	0.456	0.400	11.4	< 30	101.8	114.0	50 - 150	
Dichlorvos	0.000	1.880	2.120	2.000	12.0	< 30	94.0	106.0	50 - 150	
Dimethoat	0.000	0.377	0.415	0.400	9.6	< 30	94.3	103.8	50 - 150	
Ethoprophos	0.000	0.407	0.433	0.400	6.2	< 30	101.8	108.3	50 - 150	
Etofenprox	0.026	1.090	1.100	0.800	0.9	< 30	133.0	134.2	50 - 150	
toxazol	0.000	0.472	0.502	0.400	6.2	< 30	118.0	125.5	50 - 150	<u> </u>
enoxycarb	0.000	0.376	0.401	0.400	6.4	< 30	94.0	100.3	50 - 150	-
enpyroximat	0.018	0.843	0.903	0.800	6.9	< 30	103.1	110.6	50 - 150	
ipronil	0.000	0.841	0.903	0.800	4.2	< 30	105.1	109.6	50 - 150	-
Flonicamid	0.000	0.860	1.070	1.000	21.8	< 30	86.0	107.0	50 - 150	
ludioxonil	0.000	0.718	0.828	0.800	14.2	< 30	89.8	103.5	50 - 150	_
Hexythiazox	0.000	1.410	1.450	1.000	2.8	< 30	141.0	145.0	50 - 150	
mazalil	0.000	0.385	0.418	0.400	8.2	< 30	96.3	104.5	50 - 150	
midacloprid	0.000	0.731	0.828	0.800	12.4	< 30	91.4	103.5	50 - 150	<u> </u>
Kresoxim-Methyl	0.000	0.731	0.967	0.800	6.0	< 30	113.9	120.9	50 - 150	
Malathion	0.000	0.311	0.429	0.400	11.1	< 30	96.0	107.3	50 - 150	
Metalaxyl	0.000	0.405	0.425	0.400	2.4	< 30	101.3	107.3	50 - 150	
Methiocarb	0.008	0.403	0.415	0.400	7.7	< 30	101.0	109.8	50 - 150	
Methomyl	0.000	0.412	0.862	0.400	39.4	< 30	72.3	109.3	50 - 150	R
MGK 264	0.000	0.378	0.487	0.400	13.4	< 30	106.5	121.8	50 - 150	, R
Myclobutanil	0.000	0.426	0.487	0.400	2.9	< 30	101.0	104.0	50 - 150	
				200000000000000000000000000000000000000	220A122		T T T T T T T T T T T T T T T T T T T			
Naled	0.000	1.020	1.080 2.060	1.000 2.000	5.7 15.1	< 30	102.0 88.5	108.0	50 - 150 50 - 150	
Dxamyl Paclobutrazol	0.000	1.770 0.861	0.909	0.800	5.4	< 30	107.6	113.6	50 - 150	
Parathion Methyl	0.000	0.660	0.867 0.528	0.800	27.1	< 30	82.5 121.5	108.4 132.0	30 - 150 50 - 150	ļ
Permethrin	0.000	0.486		ie.c.e.e.e.e.	8.3	< 30				
Phosmet	0.000	0.388	0.394	0.400	1.5	< 30	97.0	98.5	50 - 150	<u> </u>
Piperonyl butoxide	0.031	2.670	2.890	2.000	7.9	< 30	132.0	143.0	50 - 150	
Prallethrin	0.007	0.201	0.219	0.200	8.6	< 30	97.1	106.1	50 - 150	
Propiconazole	0.000	0.839	0.876	0.800	4.3	< 30	104.9	109.5	50 - 150	
ropoxur	0.009	0.381	0.414	0.400	8.3	< 30	92.9	101.2	50 - 150	
Pyrethrins	0.001	0.393	0.411	0.284	4.5	< 30	137.9	144.3	50 - 150	
yridaben	0.000	0.699	0.727	0.400	3.9	< 30	174.8	181.8	50 - 150	Q1
pinosad	0.000	0.427	0.454	0.388	6.1	< 30	110.1	117.0	50 - 150	
piromesifen	0.000	0.500	0.520	0.400	3.9	< 30	125.0	130.0	50 - 150	
pirotetramat	0.000	0.343	0.359	0.400	4.6	< 30	85.8	89.8	50 - 150	
piroxamine	0.000	0.795	0.860	0.800	7.9	< 30	99.4	107.5	50 - 150	
ebuconazol	0.034	0.768	0.842	0.800	9.2	< 30	91.8	101.0	50 - 150	
hiacloprid	0.000	0.392	0.426	0.400	8.3	< 30	98.0	106.5	50 - 150	
hiamethoxam	0.000	0.365	0.422	0.400	14.5	< 30	91.3	105.5	50 - 150	
Trifloxystrobin	0.023	0.461	0.512	0.400	7.5	< 30	109.6	122.4	50 - 150	





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OR100028

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#### **Laboratory Quality Control Results**

J AOAC 2015	V98-6			Bat	ch ID: 1905386		
Laboratory C	ontrol Sample						
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.196	0.2	%	98.0	85 - 115	Acceptable	
CBDV	0.206	0.2	%	103	85 - 115	Acceptable	
CBD-A	0.199	0.2	%	99.5	85 - 115	Acceptable	
CBG-A	0.192	0.2	%	96.0	85 - 115	Acceptable	
CBG	0.207	0.2	%	104	85 - 115	Acceptable	
CBD	0.212	0.2	%	106	85 - 115	Acceptable	
THCV	0.196	0.2	%	98.0	85 - 115	Acceptable	
THCVA	0.191	0.2	%	95.5	85 - 115	Acceptable	
CBN	0.199	0.2	%	99.5	85 - 115	Acceptable	
THC	0.193	0.2	%	96.5	85 - 115	Acceptable	
D8THC	0.190	0.2	%	95.0	85 - 115	Acceptable	
CBL	0.188	0.2	%	94.0	85 - 115	Acceptable	
CBC	0.204	0.2	%	102	85 - 115	Acceptable	
THCA	0.196	0.2	%	98.0	85 - 115	Acceptable	
CBCA	0.186	0.2	%	93.0	85 - 115	Acceptable	

#### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.1	%	< 0.1	Acceptable	
CBDV	ND	0.1	%	< 0.1	Acceptable	
CBD-A	ND	0.1	%	< 0.1	Acceptable	
CBG-A	ND	0.1	%	< 0.1	Acceptable	
CBG	ND	0.1	%	< 0.1	Acceptable	
CBD	ND	0.1	%	< 0.1	Acceptable	
THCV	ND	0.1	%	< 0.1	Acceptable	
THCVA	ND	0.1	%	< 0.1	Acceptable	
CBN	ND	0.1	%	< 0.1	Acceptable	
THC	ND	0.1	%	< 0.1	Acceptable	
D8THC	ND	0.1	%	< 0.1	Acceptable	
CBL	ND	0.1	%	< 0.1	Acceptable	
CBC	ND	0.1	%	< 0.1	Acceptable	
THCA	ND	0.1	%	< 0.1	Acceptable	
CBCA	ND	0.1	%	< 0.1	Acceptable	

#### Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

### Units of Measure:

% - Percent





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J AOAC 2015	V98-6									
Sample Dupl	icate		Sample ID: <b>19-006785-0005</b>							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes		
CBDV-A	ND	ND	0.1	%	0	< 20	Acceptable			
CBDV	0.583	0.59	0.1	%	1.19	< 20	Acceptable			
CBD-A	ND	ND	0.1	%	0	< 20	Acceptable			
CBG-A	ND	ND	0.1	%	0	< 20	Acceptable			
CBG	0.769	0.777	0.1	%	1.03	< 20	Acceptable			
CBD	36.2	36.8	0.1	%	1.64	< 20	Acceptable			
THCV	ND	ND	0.1	%	0	< 20	Acceptable			
THCVA	ND	ND	0.1	%	0	< 20	Acceptable			
CBN	ND	0.0961	0.1	%	3.98	< 20	Acceptable			
THC	1.43	1.45	0.1	%	1.39	< 20	Acceptable			
D8THC	ND	ND	0.1	%	0	< 20	Acceptable			
CBL	0.204	0.194	0.1	%	5.03	< 20	Acceptable			
CBC	ND	ND	0.1	%	0	< 20	Acceptable			
THCA	ND	ND	0.1	%	0	< 20	Acceptable			
CBCA	ND	ND	0.1	%	0	< 20	Acceptable			

#### **Abbreviations**

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

#### Units of Measure:

% - Percent





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#### Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

# **Certificate of Quality Assurance**

PRODUCT NAME: Tranquil Mint Tincture

PRODUCT STRENGTH: 1000 mg LOT NUMBER: TM1000-T173 OIL BATCH NUMBER: CONO19-75 DATE OF MANUFACTURE: 7/10/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 7/10/2019

**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Grapeseed Oil, Hempseed Oil, Peppermint Oil



# **Physical Attributes of Raw Hemp Oil**

Attribute	Acceptance Criteria	Result
Appearance	Viscous Dark Amber Oil Possible Crystal Formation	Conforms
Aroma	Characteristic Hemp Aroma	Conforms
Dissolution	Not Cloudy or Turbid, Characteristic Color	Conforms
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <2000 cfu/g	Conforms

### Cannabinoid Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	84.99
CBG	<0.03
CBN	<0.03
THC	ND
CBC	<0.03
THC-A	ND
CBD-A	<0.03

#### Pesticides\*

Compound	Result	Compound	Result
Acequinocil	ND	Spinosad	ND
Pyrethrium	ND	Spirotetramat	ND
Spiromesifin	ND	Bifenazate	ND
Abamectin	ND	Fenoxycarb	ND
Imidacloprid	ND	Paclobutrazol	ND

# Terpene Results\*

Compound	Weight %	Compound	Weight %
β-Bisabolene	1.0-3.0	Camphene	0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ-3-Carene	< 0.1

#### Residual Solvents\*

Solvent	Weight %
Acetone	Compliant with USP<467>
Butane	Compliant with USP<467>
Ethanol	Compliant with USP<467>
Hexane	Compliant with USP<467>
Isobutane	Compliant with USP<467>
Isopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

# **Certificate of Quality Assurance**

PRODUCT NAME: Tranquil Mint Tincture

PRODUCT STRENGTH: 1000 mg LOT NUMBER: TM1000-T173 OIL BATCH NUMBER: CONO19-75 DATE OF MANUFACTURE: 7/10/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 7/10/2019

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Grapeseed Oil, Hempseed Oil, Peppermint Oil

### Heavy Metals\*

Metal	Result
Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

**Analysis Results for Finished Product** 

Attribute	Acceptance Criteria	Result
Appearance	Clear Colorless to Light Yellow Liquid	Conforms
Aroma	Characteristic Mint Flavor	Conforms
Cannabidiol Content	95 to 110% of Label Claim	Conforms
THC Content	None Detected	Conforms

<sup>\*</sup> Results based on testing of multiple batches of hemp oil raw material.

Quality Certified by:

Matthew Plenert, Ph.D

Head Chemist and Laboratory Manager

Date

QC Unit released by:

David Boaz

QC Manager

Dato





 Job Number:
 19-006793

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 06/20/2019

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**Purchase Order:** 

**Received:** 06/13/19 07:23

Product identity:	TM1000-T118			Client/I	Metrc ID:	
Laboratory ID:	19-006793-000	3		Sample	Date:	
			Su	mmary		
Potency:						
Analyte per 30ml	Result	Limits	Units	LOQ	CBD-Total per 30ml	1100 mg/30ml
CBD per 30ml	1100		mg/30ml	27.7	THC-Total per 30ml	< 52.076 mg/30ml
Pesticides:						
All analytes passing a	nd less than LOQ.					
Metals:						
Less than LOQ for all	analytes.					
Microbiology:						
Less than LOQ for all	analytes.					





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**Purchase Order:** 

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Customer: Beam Organics

Product identity: TM1000-T118

Client/Metrc ID: .

Sample Date:

Laboratory ID: 19-006793-0003
Relinquished by: Received By Mail

**Temp:** 22.9 °C **Serving Size #1:** 27.7 g

# **Sample Results**

Potency per 30ml		Batch: 190	5386			
Analyte	Result	Limits Units	LOQ	Analyze	Method	Notes
CBC per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBC-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBC-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6	
CBD per 30ml	1100	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBD-A per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBD-Total per 30ml	1100	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6	
CBDV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBDV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBDV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.8	06/18/19	J AOAC 2015 V98-6	
CBG per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBG-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBG-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6	
CBL per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBN per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
$\Delta 8$ -THC per 30ml $^{\dagger}$	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
Δ9-THC per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
THC-A per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
THC-Total per 30ml	< LOQ	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6	
THCV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
THCV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
THCV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.8	06/18/19	J AOAC 2015 V98-6	





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Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	Χ
Yeast	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	X

D (1.1)		1010	0007.04.0.51	1.45000 (		1005046		00/45/40 40 57 514
Pesticides				, ,	Units mg/kg Batcl			ze 06/15/19 12:57 PM
Analyte	Result		LOQ Status	Notes	Analyte	Result		LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass		Acephate	< LOQ	0.40	0.250 pass
Acequinocyl	< LOQ	2.0	1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ	0.40	0.200 pass		Azoxystrobin	< LOQ	0.20	0.100 pass
Bifenazate	< LOQ	0.20	0.100 pass		Bifenthrin	< LOQ	0.20	0.100 pass
Boscalid	< LOQ	0.40	0.100 pass		Carbaryl	< LOQ	0.20	0.100 pass
Carbofuran	< LOQ	0.20	0.100 pass		Chlorantraniliprole	< LOQ	0.20	0.100 pass
Chlorfenapyr	< LOQ	1.0	0.500 pass		Chlorpyrifos	< LOQ	0.20	0.100 pass
Clofentezine	< LOQ	0.20	0.100 pass		Cyfluthrin (incl.	< LOQ	1.0	0.500 pass
Cypermethrin	< LOQ	1.0	0.500 pass		Daminozide	< LOQ	1.0	0.500 pass
Diazinon	< LOQ	0.20	0.100 pass		Dichlorvos	< LOQ	1.0	0.500 pass
Dimethoate	< LOQ	0.20	0.100 pass		Ethoprophos	< LOQ	0.20	0.100 pass
Etofenprox	< LOQ	0.40	0.200 pass		Etoxazole	< LOQ	0.20	0.100 pass
Fenoxycarb	< LOQ	0.20	0.100 pass		Fenpyroximate	< LOQ	0.40	0.200 pass
Fipronil	< LOQ	0.40	0.200 pass		Flonicamid	< LOQ	1.0	0.400 pass
Fludioxonil	< LOQ	0.40	0.200 pass		Hexythiazox	< LOQ	1.0	0.400 pass
Imazalil	< LOQ	0.20	0.100 pass		Imidacloprid	< LOQ	0.40	0.200 pass
Kresoxim-methyl	< LOQ	0.40	0.200 pass		Malathion	< LOQ	0.20	0.100 pass
Metalaxyl	< LOQ	0.20	0.100 pass		Methiocarb	< LOQ	0.20	0.100 pass
Methomyl	< LOQ	0.40	0.200 pass		MGK-264	< LOQ	0.20	0.100 pass
Myclobutanil	< LOQ	0.20	0.100 pass		Naled	< LOQ	0.50	0.250 pass
Oxamyl	< LOQ	1.0	0.500 pass		Paclobutrazole	< LOQ	0.40	0.200 pass
Parathion-Methyl	< LOQ	0.20	0.200 pass		Permethrin	< LOQ	0.20	0.100 pass
Phosmet	< LOQ	0.20	0.100 pass		Piperonyl butoxide	< LOQ	2.0	1.00 pass
Prallethrin	< LOQ	0.20	0.100 pass		Propiconazole	< LOQ	0.40	0.200 pass
Propoxur	< LOQ	0.20	0.100 pass		Pyrethrin I (total)	< LOQ	1.0	0.500 pass
Pyridaben	< LOQ	0.20	0.100 pass		Spinosad	< LOQ	0.20	0.100 pass
Spiromesifen	< LOQ	0.20	0.100 pass		Spirotetramat	< LOQ	0.20	0.100 pass
Spiroxamine	< LOQ	0.40	0.200 pass		Tebuconazole	< LOQ	0.40	0.200 pass
Thiacloprid	< LOQ	0.20	0.100 pass		Thiamethoxam	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass					





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 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Cadmium	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Lead	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Mercury	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	X





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 06/20/2019

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 OR100028

**Purchase Order:** 

**Received:** 06/13/19 07:23

#### This report cannot be used for ODA, OHA or OLCC compliance requirements.

#### **Abbreviations**

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

### Units of Measure

cfu/g = Colony forming units per gram g = Gram mg/kg = Milligram per kilogram = parts per million (ppm) mg/27.7g = Milligram per 27.7g % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

## Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager



Effective 03/06/2019 Revised 03/06/2019

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



Job Number:

19-006793

**Report Number:** 

19-006793-00

**Report Date:** ORELAP#:

06/20/2019 OR100028

**Purchase Order:** 

Received:

06/13/19 07:23

This report cannot be used for ODA, OHA or OLCC compliance requirements.

		T				1								19-0	067	93 ORELAI	A Tentamus Company P ID: OR100028
		$\vdash$	_			_		, ,	Analy	sis Re	ques	sted					Purchase Order Number:
			spu											Heavy	Metals	LOQ .1	Project Number:
		4	pour		- 377									ppm			Project Name:
			Com		3				l (	_			1				
Fax:		- gu	379							forn			2	Please	bill/sen	d reports	☐ Report Instructions:
's		одшоз	1 1				- ,,	,	PIO	tal Coli				to Darc	cie Mora	n's	☐ Send to State - METRC ☑ Email Final Results: ☐ Fax Final Results
		59	-Res		ıts				d Mc	d To							☐ Cash/Check/CC/Net 30
		- 1	Multi		olven	ivity			st an	oli an	als						Other:
Date Colle	/Time ected	Pesticides	Pesticide	Potency	Residual S	Water Act	Moisture	Terpenes	Micro: Yea	Micro: E.Co	Heavy Met	Mycotoxins	Other	Matrix	Woight	Serving size	
		x		<					×	_					weight		Comments/Metrc ID
		х		(					- 5.1								0.9213
		x	>	(	100				x	_	_						0.9211
		x	×	(					×								0.9233
		x	×						x								0.9239
		x	×						×				_				0.9235
										^	_			Oii		30ml	0.9262
Relinqu	uished B	y:		Т	Date		Time		Recei	and but							
David	Boaz			-	3/12				Necel	ved by.					4		Use Only: nt Alias:
							-1-101							Dby	30 0	Ord	er Number: per Container
																	ple Condition perature: ped Via:
	Date Coll	Fax:  Date/Time Collected  Relinquished B  David Boaz	icides – OR 59 compour	Fax:  Date/Time Collected X X X X X X X X X X X X X X X X X X X	Fax:  Date/Time Collected  X  X  X  X  X  X  X  X  A  A  A  A  A	Fax:  Date/Time Collected  X X X X X X X X X X X X X X X X X X	Potency X X X X X X X X X X X X X X X X X X X	Fax:     Date   Time     David Boaz   Eliquest   Eliq	Fax:  Date/Time Collected  X  X  X  X  X  X  X  X  X  X  X  X  X	Posticide Multi-Residue   Solvents   Posticide Multi-Residue   Posticide Multi-Residue   Posticide Multi-Residue   Posticide Multi-Residue   Posticide   Posticide Multi-Residue   Posticide   Posticid	Fax:  Date/Time Collected  X  X  X  X  X  X  X  X  X  X  X  X  X	Pate/Lime   Pesticide Multi-Residue   379 compounds   Pate/Lime   Pate   Pate	Pasticides	Pasticide Multi-Residue   Solvents   Pasticide   Pasticide Multi-Residue   Pasticide Multi-Residue   Pasticide   Pasticide Multi-Residue   Pasticide Multi-Residue   Pasticide   Pasticide   Pasticide   Pasticide Multi-Residue   Pasticide Multi-Residue   Pasticide   Pasticide	Analysis Requested    Fax:	Analysis Requested    Collected	Analysis Requested    Please bill/send reports to Darcie Moran's account.   Please bill/send reports to Darcie Moran's account.

www.pixislabs.com

www.columbiafoodlab.com

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Job Number: 19-006793 **Report Number:** 19-006793-00

**Report Date:** 06/20/2019

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**Purchase Order:** 

ORELAP#:

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Columbia Food  LABORATORIES  LA A Tentamus Company	Columbia Food/Pixis Labs Sample Receipt Form	Revision: 1.00 Document Control: CF015 Revised: 04/25/2019 Effective: 05/11/2019
Job Number: 19-006	9793 Search Name:	
Package/Cooler opened on (if different th	an received date/time) Date SUA311 Time	e: 07:23
Received By (Initials):		
Were custody seals on outside of the If YES, how many and where?	package/cooler? YI	ES NO NA
Were signature and date correct?	YI	ES NO NÀ
2) Were custody papers included in the p	package/cooler?	NO NA
3) Were custody papers properly filled o	ut (ink, sign, date)?	NO NA
4) Did you sign custody papers in the ap	propriate place?	NO NA
5) How was the package/cooler delivered	d?	
UPS FEDEX USPS	CLIENT COURIER OT	`HER:
Tracking Number (written in or copy	of shipping label): 4776 1289	50093
6) Was packing material used?	YE	9 NO NA
Peanuts Bubble Wrap Foam	Paper Other:	<u></u>
7) Was sufficient ice used (if appropriate What kind?	)? YE	s no na
Blue Ice Ice Cooler Pa	acks Dry Ice	none
8) Were all sample containers sealed in se	eparate plastic bags?	S NO NA
9) Did all sample containers arrive in goo	d condition?	S) NO NA
10) Were all sample container labels comp	lete?	NO NA
11) Did all sample container labels and tag	s agree with the coc?	NO NA
12) Were correct sample containers used for	or the tests indicated?	8 NO NA
13) Were VOA vials checked for absence of	of air bubbles (note if found)?	S NO NA
14) Was a sufficient amount of sample sen	t in each sample container?	NO NA
15) Temperature of the samples upon recei	pt (See SOP for proper temps)	€ °C
6) Sample location prior to login: R25	R39 R44 F44 Ambient Shelf Can	nabis Table Other:
Explain any discrepancies:		
2 2		
age of		





 Job Number:
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**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN	15662	Units	s: mg/Kg		Batch ID: 1905312			
Method Blank				Laboratory Cor	ntrol Samp	ole		
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	ND	< 0.200		1.150	1.000	115.0	70 - 130	
Acequinocyl	ND	< 1.000	1	4.040	4.000	101.0	70 - 130	
Acetamiprid	ND	< 0.100		0.413	0.400	103.3	70 - 130	
Aldicarb	ND	< 0.200		0.808	0.800	101.0	70 - 130	
Abamectin	ND	< 0.288		0.926	1.000	92.6	70 - 130	
Azoxystrobin	ND	< 0.100	1	0.395	0.400	98.8	70 - 130	1
Bifenazate	ND	< 0.100	1	0.395	0.400	98.8	70 - 130	1
Bifenthrin	ND	< 0.100		0.386	0.400	96.5	70 - 130	
Boscalid	ND	< 0.100		0.801	0.800	100.1	70 - 130	İ
Carbaryl	ND	< 0.100		0.401	0.400	100.3	70 - 130	
Carbofuran	ND	< 0.100	1	0.403	0.400	100.8	70 - 130	
Chlorantraniliprol	ND	< 0.100	1	0.357	0.400	89.3	70 - 130	l
Chlorfenapyr	ND	< 1.000		1.730	2.000	86.5	70 - 130	
Chlorpyrifos	ND	< 0.100	1	0.383	0.400	95.8	70 - 130	
Clofentezine	ND	< 0.100	1	0.399	0.400	99.8	70 - 130	1
Cyfluthrin	ND	< 1.000	1	1.800	2.000	90.0	30 - 150	l
Cypermethrin	ND	< 1.000		2.050	2.000	102.5	70 - 130	
Daminozide	ND	< 1.000	1	2.140	2.000	107.0	30 - 150	
Diazinon	ND	< 0.100	1	0.403	0.400	100.8	70 - 130	
Dichlorvos	ND ND	< 0.500	1	1.920	2.000	96.0	70 - 130	<b>—</b>
Dimethoat	ND ND	< 0.100	_	0.404	0.400	101.0	70 - 130	
Ethoprophos	ND	< 0.100	-	0.408	0.400	102.0	70 - 130	
Etofenprox	ND ND	< 0.100	1	0.789	0.800	98.6	70 - 130	<u> </u>
Etoxazol	ND	< 0.100	1	0.393	0.400	98.3	70 - 130	
Fenoxycarb	ND	< 0.100	1	0.387	0.400	96.8	70 - 130	<del> </del>
Fenpyroximat	ND ND	< 0.100	+	0.783	0.800	97.9	70 - 130	<u> </u>
Fipronil	ND ND	< 0.100	+	0.763	0.800	95.4	70 - 130	-
Flonicamid	ND ND	< 0.400	1	1.030	1.000	103.0	70 - 130	<del>                                     </del>
Fludioxonil	ND ND	< 0.100	+	0.739	0.800	92.4	70 - 130	
Hexythiazox	ND ND	< 0.400	-	1.010	1.000	101.0	70 - 130	-
Imazalil	ND ND	< 0.100	-	0.421	0.400	105.3	70 - 130	
Imidacloprid	ND	< 0.200	-	0.784	0.800	98.0	70 - 130	-
Kresoxim-Methyl	ND ND	< 0.100	+	0.819	0.800	102.4	70 - 130	<u> </u>
Malathion	ND ND	< 0.100	1	0.390	0.400	97.5	70 - 130	<u> </u>
Metalaxyl	ND ND	< 0.100	1	0.388	0.400	97.0	70 - 130	-
Methiocarb	ND ND	< 0.100	1	0.398	0.400	99.5	70 - 130	<del>                                     </del>
Methomyl	ND ND	< 0.200	+	0.860	0.800	107.5	70 - 130	-
MGK 264	ND ND	< 0.100	+	0.400	0.400	100.0	70 - 130	<del>                                     </del>
Myclobutanil	ND ND	< 0.100	-	0.394	0.400	98.5	70 - 130	-
Naled	ND	< 0.200	-	0.962	1.000	96.2	70 - 130	-
Oxamyl	ND ND	< 0.400	1	2.020	2.000	101.0	70 - 130	<del>                                     </del>
Paclobutrazol	ND ND	< 0.200	1	0.797	0.800	99.6	70 - 130	
Parathion Methyl	ND ND	< 0.200	1	0.758	0.800	94.8	30 - 150	
Permethrin	ND ND	< 0.100	1	0.400	0.400	100.0	70 - 130	<del> </del>
Phosmet	ND ND	< 0.100	+	0.407	0.400	101.8	70 - 130	<u> </u>
Piperonyl butoxide	ND ND	< 1.000	1	1.910	2.000	95.5	70 - 130	
Prallethrin	ND I	< 0.200	1	0.203	0.200	101.5	70 - 130	<del> </del>
Propiconazole	ND ND	< 0.200	1	0.805	0.800	100.6	70 - 130	
Propoxur	ND ND	< 0.100	1	0.402	0.400	100.5	70 - 130	1
Pyrethrins	ND ND	< 0.500	1	0.302	0.284	106.3	70 - 130	
Pyridaben	ND ND	< 0.100	1	0.547	0.204	136.8	70 - 130	01
Spinosad	ND ND	< 0.100	+	0.423	0.388	109.0	70 - 130	<u> </u>
Spiromesifen	ND ND	< 0.100	+	0.364	0.400	91.0	70 - 130	_
Spirotetramat	ND ND	< 0.100	1	0.392	0.400	98.0	70 - 130	-
Spiroxamine	ND ND	< 0.100	1	0.859	0.800	107.4	70 - 130	<del>                                     </del>
rebuconazol	ND ND	< 0.200	1	0.756	0.800	94.5	70 - 130	-
Thiacloprid	ND ND	< 0.100	-	0.414	0.400	103.5	70 - 130	-
Thiaciopriu Thiamethoxam	ND ND	< 0.100	-	0.414	0.400	103.5	70 - 130	-
Frifloxystrobin	ND I	< 0.100	-	0.418	0.400	97.3	70 - 130	
THIOXYSTIODIII	IND	< 0.100	1	0.369	0.400	97.3	70 - 130	





 Job Number:
 19-006793

 Report Number:
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 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

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OR100028

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Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 1	5662		Units:	mg/Kg				Batch	ID: 19053	12		
Matrix Spike/Matrix	Spike Duplic	ate Reco	veries			S	ample ID:	: 19-006793-0002				
Analyte	Result	MS Res	MSD Res	Spike	RP	PD%		MSD % Rec	Limits	Notes		
Acephate	0.000	0.745	0.860	1.000	14.3	< 30	74.5	86.0	50 - 150			
Acequinocyl	0.000	8.480	8.850	4.000	4.3	< 30	212.0	221.3	50 - 150	Q1		
Acetamiprid	0.000	0.374	0.417	0.400	10.9	< 30	93.5	104.3	50 - 150			
Aldicarb	0.000	0.733	0.835	0.800	13.0	< 30	91.6	104.4	50 - 150			
Abamectin	0.000	1.220	1.290	1.000	5.6	< 30	122.0	129.0	50 - 150			
Azoxystrobin	0.012	0.420	0.451	0.400	7.1	< 30	102.0	109.8	50 - 150			
Bifenazate	0.000	0.388	0.404	0.400	4.0	< 30	97.0	101.0	50 - 150			
Bifenthrin	0.000	1.490	1.460	0.400	2.0	< 30	372.5	365.0	50 - 150	Q1		
3oscalid	0.081	0.886	0.897	0.800	1.2	< 30	100.6	102.0	50 - 150			
Carbaryl	0.000	0.395	0.432	0.400	8.9	< 30	98.8	108.0	50 - 150			
Carbofuran	0.000	0.385	0.423	0.400	9.4	< 30	96.3	105.8	50 - 150			
Chlorantraniliprol	0.000	0.356	0.343	0.400	3.7	< 30	89.0	85.8	50 - 150			
Chlorfenapyr	0.000	3.010	3.220	2.000	6.7	< 30	150.5	161.0	50 - 150	Q1		
Chlorpyrifos	0.000	0.519	0.539	0.400	3.8	< 30	129.8	134.8	50 - 150			
Clofentezine	0.000	0.448	0.491	0.400	9.2	< 30	112.0	122.8	50 - 150			
yfluthrin	0.000	3.760	3.800	2.000	1.1	< 30	188.0	190.0	30 - 150	Q1		
Cypermethrin	0.000	2.720	2.920	2.000	7.1	< 30	136.0	146.0	50 - 150			
Daminozide	0.000	1.840	2.070	2.000	11.8	< 30	92.0	103.5	30 - 150			
Diazinon	0.000	0.407	0.456	0.400	11.4	< 30	101.8	114.0	50 - 150			
Dichlorvos	0.000	1.880	2.120	2.000	12.0	< 30	94.0	106.0	50 - 150			
Dimethoat	0.000	0.377	0.415	0.400	9.6	< 30	94.3	103.8	50 - 150			
Ethoprophos	0.000	0.407	0.433	0.400	6.2	< 30	101.8	108.3	50 - 150			
Etofenprox	0.026	1.090	1.100	0.800	0.9	< 30	133.0	134.2	50 - 150			
toxazol	0.000	0.472	0.502	0.400	6.2	< 30	118.0	125.5	50 - 150	<u> </u>		
enoxycarb	0.000	0.376	0.401	0.400	6.4	< 30	94.0	100.3	50 - 150	-		
enpyroximat	0.018	0.843	0.903	0.800	6.9	< 30	103.1	110.6	50 - 150			
ipronil	0.000	0.841	0.903	0.800	4.2	< 30	105.1	109.6	50 - 150	-		
Flonicamid	0.000	0.860	1.070	1.000	21.8	< 30	86.0	107.0	50 - 150			
ludioxonil	0.000	0.718	0.828	0.800	14.2	< 30	89.8	103.5	50 - 150	_		
Hexythiazox	0.000	1.410	1.450	1.000	2.8	< 30	141.0	145.0	50 - 150			
mazalil	0.000	0.385	0.418	0.400	8.2	< 30	96.3	104.5	50 - 150			
midacloprid	0.000	0.731	0.828	0.800	12.4	< 30	91.4	103.5	50 - 150	<u> </u>		
Kresoxim-Methyl	0.000	0.731	0.967	0.800	6.0	< 30	113.9	120.9	50 - 150			
Malathion	0.000	0.311	0.429	0.400	11.1	< 30	96.0	107.3	50 - 150			
Metalaxyl	0.000	0.405	0.425	0.400	2.4	< 30	101.3	107.3	50 - 150			
Methiocarb	0.008	0.403	0.415	0.400	7.7	< 30	101.0	109.8	50 - 150			
Methomyl	0.000	0.412	0.862	0.400	39.4	< 30	72.3	109.3	50 - 150	R		
MGK 264	0.000	0.378	0.487	0.400	13.4	< 30	106.5	121.8	50 - 150	, R		
Myclobutanil	0.000	0.426	0.487	0.400	2.9	< 30	101.0	104.0	50 - 150			
				200000000000000000000000000000000000000	220A122		T T T T T T T T T T T T T T T T T T T					
Naled	0.000	1.020	1.080 2.060	1.000 2.000	5.7 15.1	< 30	102.0 88.5	108.0	50 - 150 50 - 150			
Dxamyl Paclobutrazol	0.000	1.770 0.861	0.909	0.800	5.4	< 30	107.6	113.6	50 - 150			
Parathion Methyl	0.000	0.660	0.867 0.528	0.800	27.1	< 30	82.5 121.5	108.4 132.0	30 - 150 50 - 150	ļ		
Permethrin	0.000	0.486		ie.c.e.e.e.e.	8.3	< 30						
Phosmet	0.000	0.388	0.394	0.400	1.5	< 30	97.0	98.5	50 - 150	<u> </u>		
Piperonyl butoxide	0.031	2.670	2.890	2.000	7.9	< 30	132.0	143.0	50 - 150			
Prallethrin	0.007	0.201	0.219	0.200	8.6	< 30	97.1	106.1	50 - 150			
Propiconazole	0.000	0.839	0.876	0.800	4.3	< 30	104.9	109.5	50 - 150			
ropoxur	0.009	0.381	0.414	0.400	8.3	< 30	92.9	101.2	50 - 150			
Pyrethrins	0.001	0.393	0.411	0.284	4.5	< 30	137.9	144.3	50 - 150			
yridaben	0.000	0.699	0.727	0.400	3.9	< 30	174.8	181.8	50 - 150	Q1		
pinosad	0.000	0.427	0.454	0.388	6.1	< 30	110.1	117.0	50 - 150			
piromesifen	0.000	0.500	0.520	0.400	3.9	< 30	125.0	130.0	50 - 150			
pirotetramat	0.000	0.343	0.359	0.400	4.6	< 30	85.8	89.8	50 - 150			
piroxamine	0.000	0.795	0.860	0.800	7.9	< 30	99.4	107.5	50 - 150			
ebuconazol	0.034	0.768	0.842	0.800	9.2	< 30	91.8	101.0	50 - 150			
hiacloprid	0.000	0.392	0.426	0.400	8.3	< 30	98.0	106.5	50 - 150			
hiamethoxam	0.000	0.365	0.422	0.400	14.5	< 30	91.3	105.5	50 - 150			
Trifloxystrobin	0.023	0.461	0.512	0.400	7.5	< 30	109.6	122.4	50 - 150			





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

OR100028

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

This report cannot be used for ODA, OHA or OLCC compliance requirements.

#### **Laboratory Quality Control Results**

J AOAC 2015	J AOAC 2015 V98-6				Batch ID: 1905386					
Laboratory C	ontrol Sample									
Analyte	Result	Spi	ke U	nits	% Rec	L	imit	s	Evaluation	Notes
CBDV-A	0.196	0.	2	%	98.0	85	-	115	Acceptable	
CBDV	0.206	0.	2	%	103	85	-	115	Acceptable	
CBD-A	0.199	0.	2	%	99.5	85	-	115	Acceptable	
CBG-A	0.192	0.	2	%	96.0	85	-	115	Acceptable	
CBG	0.207	0.	2	%	104	85	-	115	Acceptable	
CBD	0.212	0.	2	%	106	85	-	115	Acceptable	
THCV	0.196	0.	2	%	98.0	85	-	115	Acceptable	
THCVA	0.191	0.	2	%	95.5	85	-	115	Acceptable	
CBN	0.199	0.	2	%	99.5	85	-	115	Acceptable	
THC	0.193	0.	2	%	96.5	85	-	115	Acceptable	
D8THC	0.190	0.	2	%	95.0	85	-	115	Acceptable	
CBL	0.188	0.	2	%	94.0	85	-	115	Acceptable	
CBC	0.204	0.	2	%	102	85	-	115	Acceptable	
THCA	0.196	0.	2	%	98.0	85	-	115	Acceptable	
CBCA	0.186	0.	2	%	93.0	85	-	115	Acceptable	

#### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.1	%	< 0.1	Acceptable	
CBDV	ND	0.1	%	< 0.1	Acceptable	
CBD-A	ND	0.1	%	< 0.1	Acceptable	
CBG-A	ND	0.1	%	< 0.1	Acceptable	
CBG	ND	0.1	%	< 0.1	Acceptable	
CBD	ND	0.1	%	< 0.1	Acceptable	
THCV	ND	0.1	%	< 0.1	Acceptable	
THCVA	ND	0.1	%	< 0.1	Acceptable	
CBN	ND	0.1	%	< 0.1	Acceptable	
THC	ND	0.1	%	< 0.1	Acceptable	
D8THC	ND	0.1	%	< 0.1	Acceptable	
CBL	ND	0.1	%	< 0.1	Acceptable	
CBC	ND	0.1	%	< 0.1	Acceptable	
THCA	ND	0.1	%	< 0.1	Acceptable	
CBCA	ND	0.1	%	< 0.1	Acceptable	

#### Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

### Units of Measure:

% - Percent





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J AOAC 2015									
Sample Dupl	icate			Sample ID: 19-006785-0005					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes	
CBDV-A	ND	ND	0.1	%	0	< 20	Acceptable		
CBDV	0.583	0.59	0.1	%	1.19	< 20	Acceptable		
CBD-A	ND	ND	0.1	%	0	< 20	Acceptable		
CBG-A	ND	ND	0.1	%	0	< 20	Acceptable		
CBG	0.769	0.777	0.1	%	1.03	< 20	Acceptable		
CBD	36.2	36.8	0.1	%	1.64	< 20	Acceptable		
THCV	ND	ND	0.1	%	0	< 20	Acceptable		
THCVA	ND	ND	0.1	%	0	< 20	Acceptable		
CBN	ND	0.0961	0.1	%	3.98	< 20	Acceptable		
THC	1.43	1.45	0.1	%	1.39	< 20	Acceptable		
D8THC	ND	ND	0.1	%	0	< 20	Acceptable		
CBL	0.204	0.194	0.1	%	5.03	< 20	Acceptable		
CBC	ND	ND	0.1	%	0	< 20	Acceptable		
THCA	ND	ND	0.1	%	0	< 20	Acceptable		
CBCA	ND	ND	0.1	%	0	< 20	Acceptable		

#### **Abbreviations**

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

#### Units of Measure:

% - Percent





 Job Number:
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#### Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

# **Certificate of Quality Assurance**

PRODUCT NAME: Tranquil Mint Tincture

PRODUCT STRENGTH: 1500 mg LOT NUMBER: TM1500-T177 OIL BATCH NUMBER: CONO19-75 DATE OF MANUFACTURE: 7/10/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 7/10/2019

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Grapeseed Oil, Hempseed Oil, Peppermint Oil



# Physical Attributes of Raw Hemp Oil

Attribute	Acceptance Criteria	Result
Appearance	Viscous Dark Amber Oil Possible Crystal Formation	Conforms
Aroma	Characteristic Hemp Aroma	Conforms
Dissolution	Not Cloudy or Turbid, Characteristic Color	Conforms
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <2000 cfu/g	Conforms

#### Cannabinoid Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	84.99
CBG	<0.03
CBN	<0.03
THC	ND
СВС	<0.03
THC-A	ND
CBD-A	<0.03

### Pesticides\*

1 COLICIOCO			
Compound	Result	Compound	Result
Acequinocil	ND	Spinosad	ND
Pyrethrium	ND	Spirotetramat	ND
Spiromesifin	ND	Bifenazate	ND
Abamectin	ND	Fenoxycarb	ND
Imidacloprid	ND	Paclobutrazol	ND

# Terpene Results\*

Compound	Weight %	Compound	Weight %
β-Bisabolene	1.0-3.0	Camphene	0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ-3-Carene	< 0.1

# Residual Solvents\*

Solvent	Weight %
Acetone	Compliant with USP<467>
Butane	Compliant with USP<467>
Ethanol	Compliant with USP<467>
Hexane	Compliant with USP<467>
Isobutane	Compliant with USP<467>
Isopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

# **Certificate of Quality Assurance**

PRODUCT NAME: Tranquil Mint Tincture

PRODUCT STRENGTH: 1500 mg LOT NUMBER: TM1500-T177 OIL BATCH NUMBER: CONO19-75 DATE OF MANUFACTURE: 7/10/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 7/10/2019

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: Grapeseed Oil, Hempseed Oil, Peppermint Oil

Heavy Metals\*

Metal	Result
Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

**Analysis Results for Finished Product** 

Attribute	Acceptance Criteria	Result				
Appearance	Clear Colorless to Light Yellow Liquid	Conforms				
Aroma	Characteristic Mint Flavor	Conforms				
Cannabidiol Content	95 to 110% of Label Claim	Conforms				
THC Content	None Detected	Conforms				

\* Results based on testing of multiple batches of hemp oil raw material.

Quality Certified by:

Matthew Plenert, Ph.D

Head Chemist and Laboratory Manager

Date

QC Unit released by:

David Boaz

QC Manager

Data





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

 ORELAP#:
 OR100028

**Purchase Order:** 

**Received:** 06/13/19 07:23

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Product identity: Laboratory ID:	TM1500-T119 19-006793-0004		Client/Metrc ID: Sample Date:				
Laboratory ID.	10 000700 0007	Su	ımmary				
Potency:							
Analyte per 30ml	Result Limits	Units	LOQ	CBD-Total per 30ml	1670 mg/30ml		
CBD per 30ml	1670	mg/30ml 27.7		THC-Total per 30ml	< 52.076 mg/30ml		
Pesticides:				•			
All analytes passing a	and less than LOQ.						
Metals:							
Less than LOQ for all	l analytes.						
Microbiology:							

Less than LOQ for all analytes.





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**Purchase Order:** 

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Customer: Beam Organics

Product identity: TM1500-T119

Client/Metrc ID: .

Sample Date:

Laboratory ID: 19-006793-0004
Relinquished by: Received By Mail

**Temp:** 22.9 °C **Serving Size #1:** 27.7 g

# **Sample Results**

Potency per 30ml		Batch: 1905386									
Analyte	Result	Limits Units	LOQ	Analyze	Method	Notes					
CBC per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
CBC-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
CBC-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6						
CBD per 30ml	1670	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
CBD-A per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
CBD-Total per 30ml	1670	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6						
CBDV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
CBDV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
CBDV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.8	06/18/19	J AOAC 2015 V98-6						
CBG per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
CBG-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
CBG-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6						
CBL per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
CBN per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
$\Delta 8\text{-THC per }30\text{ml}^{\dagger}$	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
Δ9-THC per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
THC-A per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
THC-Total per 30ml	< LOQ	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6						
THCV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
THCV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6						
THCV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.8	06/18/19	J AOAC 2015 V98-6						





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Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	X

D (1.1)		1010	0007.04.0.51	45000 /	11.14. // 5.1	1005016		00/45/40 40 57 514
Pesticides				, ,	Units mg/kg Batch			ze 06/15/19 12:57 PM
Analyte	Result		LOQ Status	Notes	Analyte	Result		LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass		Acephate	< LOQ	0.40	0.250 pass
Acequinocyl	< LOQ	2.0	1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ	0.40	0.200 pass		Azoxystrobin	< LOQ	0.20	0.100 pass
Bifenazate	< LOQ	0.20	0.100 pass		Bifenthrin	< LOQ	0.20	0.100 pass
Boscalid	< LOQ	0.40	0.100 pass		Carbaryl	< LOQ	0.20	0.100 pass
Carbofuran	< LOQ	0.20	0.100 pass		Chlorantraniliprole	< LOQ	0.20	0.100 pass
Chlorfenapyr	< LOQ	1.0	0.500 pass		Chlorpyrifos	< LOQ	0.20	0.100 pass
Clofentezine	< LOQ	0.20	0.100 pass		Cyfluthrin (incl.	< LOQ	1.0	0.500 pass
Cypermethrin	< LOQ	1.0	0.500 pass		Daminozide	< LOQ	1.0	0.500 pass
Diazinon	< LOQ	0.20	0.100 pass		Dichlorvos	< LOQ	1.0	0.500 pass
Dimethoate	< LOQ	0.20	0.100 pass		Ethoprophos	< LOQ	0.20	0.100 pass
Etofenprox	< LOQ	0.40	0.200 pass		Etoxazole	< LOQ	0.20	0.100 pass
Fenoxycarb	< LOQ	0.20	0.100 pass		Fenpyroximate	< LOQ	0.40	0.200 pass
Fipronil	< LOQ	0.40	0.200 pass		Flonicamid	< LOQ	1.0	0.400 pass
Fludioxonil	< LOQ	0.40	0.200 pass		Hexythiazox	< LOQ	1.0	0.400 pass
Imazalil	< LOQ	0.20	0.100 pass		Imidacloprid	< LOQ	0.40	0.200 pass
Kresoxim-methyl	< LOQ	0.40	0.200 pass		Malathion	< LOQ	0.20	0.100 pass
Metalaxyl	< LOQ	0.20	0.100 pass		Methiocarb	< LOQ	0.20	0.100 pass
Methomyl	< LOQ	0.40	0.200 pass		MGK-264	< LOQ	0.20	0.100 pass
Myclobutanil	< LOQ	0.20	0.100 pass		Naled	< LOQ	0.50	0.250 pass
Oxamyl	< LOQ	1.0	0.500 pass		Paclobutrazole	< LOQ	0.40	0.200 pass
Parathion-Methyl	< LOQ	0.20	0.200 pass		Permethrin	< LOQ	0.20	0.100 pass
Phosmet	< LOQ	0.20	0.100 pass		Piperonyl butoxide	< LOQ	2.0	1.00 pass
Prallethrin	< LOQ	0.20	0.100 pass		Propiconazole	< LOQ	0.40	0.200 pass
Propoxur	< LOQ	0.20	0.100 pass		Pyrethrin I (total)	< LOQ	1.0	0.500 pass
Pyridaben	< LOQ	0.20	0.100 pass		Spinosad	< LOQ	0.20	0.100 pass
Spiromesifen	< LOQ	0.20	0.100 pass		Spirotetramat	< LOQ	0.20	0.100 pass
Spiroxamine	< LOQ	0.40	0.200 pass		Tebuconazole	< LOQ	0.40	0.200 pass
Thiacloprid	< LOQ	0.20	0.100 pass		Thiamethoxam	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass					





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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Cadmium	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Lead	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	X
Mercury	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	X





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#### This report cannot be used for ODA, OHA or OLCC compliance requirements.

#### **Abbreviations**

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

### Units of Measure

cfu/g = Colony forming units per gram g = Gram mg/kg = Milligram per kilogram = parts per million (ppm) mg/27.7g = Milligram per 27.7g % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

#### Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager



Effective 03/06/2019 Revised 03/06/2019

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



Job Number:

19-006793

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**Report Date:** 

06/20/2019 OR100028

ORELAP#: **Purchase Order:** 

Received: 06/13/19 07:23

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Company: BEAM							7			A I	· · · ·			_	19-0	00	193 OREL	AP ID: OR100028	
				Т	Т	_	_	_		Analy	SIS Re	que	sted					Purchase Order Number:	
Contact: n/a Address: n/a				nds												Metals	LOQ .1	Project Number:	
Email: n/a			-	379 compounds				1						4	ppm			Project Name:	
			٦ ا	Com		1.5				l V	_			1 1					
Phone: n/a Fax:		- Pu	379							iforr			1	Please	bill/se	nd reports	S Report Instructions:		
Processor's License:			compounds	- en						JA.	00				to Darc	cie Mor	an's	☐ Send to State - METRC ☐ Email Final Results:	
				esidı						Mold	Tota				accoun	ıt.		☐ Fax Final Results	
			Pesticides - OR 59 comp				ents	>			pue	and							☐ Cash/Check/CC/Net 30
			1	Mu		Solv	tivit			ast a	Coli	etals	SL					Other:	
			Pesticides	icide	ncy	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins				Serving		
Field ID	Date Colle	/Time ected	Pest	Pest	Potency	Resid	Wate	Mois	Ferp	Micro	Micro	leav	Лусо	Other			size		
ΓM500-T116			x		X	387	_			180			2	0	Matrix	Weigh		es Comments/Metrc ID	
NAT500-T117			Ŷ							X	Х				Oil		30ml	0.9213	
M1000-T118			v		<u>^</u>	222		_		X	Х	_			Oil		30ml	0.9211	
M1500-T119			x			110		-		X	Х				Oil		30ml	0.9233	
NAT1000-T120			x		<u>`</u>					X	Х	_			Oil		30ml	0.9239	
NAT1500-T121			x							X	Х				Oil		30ml	0.9235	
			_		`					X	Х	<u> </u>			Oil		30ml	0.9262	
Collected By:	Relinqu	uished E	By:			Date		Time		Receiv	ved by:				Date	Т	ime La	b Use Only:	
Standard (5 day)	David				(	3/12		2PM		K	2				DOA	0		ient Alias:	
□Rush (3-4 day)	71	8	2			6/1	2			71					00/	90		der Number:	
(1.5x Standard)						, vb				17								oper Container mple Condition	
□Priority Rush (2 day)						14.2				7	_						~ Le	mperature:	
(2x Standard)						THE				1				_			Sh	ipped Via:	
	-									-								dence of cooling:	

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Received: 06/13/19 07:23

OR100028

Columbia Food  LABORATORIES  LA A Tentamus Company	Columbia Food/Pixis Labs Sample Receipt Form	Revision: 1.00 Document Control: CF015 Revised: 04/25/2019 Effective: 05/11/2019
Job Number: 19-006	9793 Search Name:	
Package/Cooler opened on (if different th	an received date/time) Date SUA311 Time	e: 07:23
Received By (Initials):		
Were custody seals on outside of the If YES, how many and where?	package/cooler? YI	ES NO NA
Were signature and date correct?	YI	ES NO NÀ
2) Were custody papers included in the p	package/cooler?	NO NA
3) Were custody papers properly filled o	ut (ink, sign, date)?	NO NA
4) Did you sign custody papers in the ap	propriate place?	NO NA
5) How was the package/cooler delivered	d?	
UPS FEDEX USPS	CLIENT COURIER OT	`HER:
Tracking Number (written in or copy	of shipping label): 4776 1289	50093
6) Was packing material used?	YE	9 NO NA
Peanuts Bubble Wrap Foam	Paper Other:	<u></u>
7) Was sufficient ice used (if appropriate What kind?	)? YE	s no na
Blue Ice Ice Cooler Pa	acks Dry Ice	none
8) Were all sample containers sealed in se	eparate plastic bags?	S NO NA
9) Did all sample containers arrive in goo	d condition?	S) NO NA
10) Were all sample container labels comp	lete?	NO NA
11) Did all sample container labels and tag	s agree with the coc?	NO NA
12) Were correct sample containers used for	or the tests indicated?	8 NO NA
13) Were VOA vials checked for absence of	of air bubbles (note if found)?	S NO NA
14) Was a sufficient amount of sample sen	t in each sample container?	NO NA
15) Temperature of the samples upon recei	pt (See SOP for proper temps)	€ °C
6) Sample location prior to login: R25	R39 R44 F44 Ambient Shelf Can	nabis Table Other:
Explain any discrepancies:		
2 2		
age of		





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

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OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN	15662	Units	s: mg/Kg			Batch	ID: 1905	312
Method Blank				Laboratory Cor	ntrol Samp	ole		
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	ND	< 0.200		1.150	1.000	115.0	70 - 130	
Acequinocyl	ND	< 1.000	1	4.040	4.000	101.0	70 - 130	
Acetamiprid	ND	< 0.100		0.413	0.400	103.3	70 - 130	
Aldicarb	ND	< 0.200		0.808	0.800	101.0	70 - 130	
Abamectin	ND	< 0.288		0.926	1.000	92.6	70 - 130	
Azoxystrobin	ND	< 0.100	1	0.395	0.400	98.8	70 - 130	1
Bifenazate	ND	< 0.100	1	0.395	0.400	98.8	70 - 130	1
Bifenthrin	ND	< 0.100		0.386	0.400	96.5	70 - 130	
Boscalid	ND	< 0.100		0.801	0.800	100.1	70 - 130	İ
Carbaryl	ND	< 0.100		0.401	0.400	100.3	70 - 130	
Carbofuran	ND	< 0.100	1	0.403	0.400	100.8	70 - 130	
Chlorantraniliprol	ND	< 0.100	1	0.357	0.400	89.3	70 - 130	l
Chlorfenapyr	ND	< 1.000		1.730	2.000	86.5	70 - 130	
Chlorpyrifos	ND	< 0.100	1	0.383	0.400	95.8	70 - 130	
Clofentezine	ND	< 0.100	1	0.399	0.400	99.8	70 - 130	1
Cyfluthrin	ND	< 1.000	1	1.800	2.000	90.0	30 - 150	l
Cypermethrin	ND	< 1.000		2.050	2.000	102.5	70 - 130	
Daminozide	ND	< 1.000	1	2.140	2.000	107.0	30 - 150	
Diazinon	ND	< 0.100	1	0.403	0.400	100.8	70 - 130	
Dichlorvos	ND ND	< 0.500	1	1.920	2.000	96.0	70 - 130	<b>—</b>
Dimethoat	ND ND	< 0.100	_	0.404	0.400	101.0	70 - 130	
Ethoprophos	ND	< 0.100	-	0.408	0.400	102.0	70 - 130	
Etofenprox	ND ND	< 0.100	1	0.789	0.800	98.6	70 - 130	<u> </u>
Etoxazol	ND	< 0.100	1	0.393	0.400	98.3	70 - 130	
Fenoxycarb	ND	< 0.100	1	0.387	0.400	96.8	70 - 130	<del> </del>
Fenpyroximat	ND ND	< 0.100	+	0.783	0.800	97.9	70 - 130	<u> </u>
Fipronil	ND ND	< 0.100	+	0.763	0.800	95.4	70 - 130	-
Flonicamid	ND ND	< 0.400	1	1.030	1.000	103.0	70 - 130	<del>                                     </del>
Fludioxonil	ND ND	< 0.100	+	0.739	0.800	92.4	70 - 130	
Hexythiazox	ND ND	< 0.400	-	1.010	1.000	101.0	70 - 130	-
Imazalil	ND ND	< 0.100	-	0.421	0.400	105.3	70 - 130	
Imidacloprid	ND	< 0.200	-	0.784	0.800	98.0	70 - 130	-
Kresoxim-Methyl	ND ND	< 0.100	+	0.819	0.800	102.4	70 - 130	<u> </u>
Malathion	ND ND	< 0.100	1	0.390	0.400	97.5	70 - 130	<u> </u>
Metalaxyl	ND ND	< 0.100	1	0.388	0.400	97.0	70 - 130	-
Methiocarb	ND ND	< 0.100	1	0.398	0.400	99.5	70 - 130	<del>                                     </del>
Methomyl	ND ND	< 0.200	+	0.860	0.800	107.5	70 - 130	-
MGK 264	ND ND	< 0.100	+	0.400	0.400	100.0	70 - 130	<del>                                     </del>
Myclobutanil	ND ND	< 0.100	-	0.394	0.400	98.5	70 - 130	-
Naled	ND	< 0.200	-	0.962	1.000	96.2	70 - 130	-
Oxamyl	ND ND	< 0.400	1	2.020	2.000	101.0	70 - 130	<del>                                     </del>
Paclobutrazol	ND ND	< 0.200	1	0.797	0.800	99.6	70 - 130	
Parathion Methyl	ND ND	< 0.200	1	0.758	0.800	94.8	30 - 150	
Permethrin	ND ND	< 0.100	1	0.400	0.400	100.0	70 - 130	<del> </del>
Phosmet	ND ND	< 0.100	+	0.407	0.400	101.8	70 - 130	<u> </u>
Piperonyl butoxide	ND ND	< 1.000	+	1.910	2.000	95.5	70 - 130	
Prallethrin	ND I	< 0.200	1	0.203	0.200	101.5	70 - 130	<del> </del>
Propiconazole	ND ND	< 0.200	1	0.805	0.800	100.6	70 - 130	
Propoxur	ND ND	< 0.100	1	0.402	0.400	100.5	70 - 130	1
Pyrethrins	ND ND	< 0.500	1	0.302	0.284	106.3	70 - 130	<b>-</b>
Pyridaben	ND ND	< 0.100	1	0.547	0.204	136.8	70 - 130	01
Spinosad	ND ND	< 0.100	+	0.423	0.388	109.0	70 - 130	
Spiromesifen	ND ND	< 0.100	+	0.364	0.400	91.0	70 - 130	_
Spirotetramat	ND ND	< 0.100	1	0.392	0.400	98.0	70 - 130	-
Spiroxamine	ND ND	< 0.100	1	0.859	0.800	107.4	70 - 130	<del>                                     </del>
rebuconazol	ND ND	< 0.200	1	0.756	0.800	94.5	70 - 130	-
Thiacloprid	ND ND	< 0.100	-	0.414	0.400	103.5	70 - 130	-
Thiaciopriu Thiamethoxam	ND ND	< 0.100	-	0.414	0.400	103.5	70 - 130	-
Frifloxystrobin	ND I	< 0.100	-	0.418	0.400	97.3	70 - 130	
THIOXYSTIODIII	IND	< 0.100	1	0.369	0.400	97.3	70 - 130	





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Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 1	15662		Units:	mg/Kg				Batch	ID: 19053	12
Matrix Spike/Matrix	Spike/Matrix Spike Duplicate Recoveries						ample ID:	19-00679	3-0002	
Analyte	Result	MS Res	MSD Res	Spike	RP	PD%		MSD % Rec	Limits	Notes
Acephate	0.000	0.745	0.860	1.000	14.3	< 30	74.5	86.0	50 - 150	
Acequinocyl	0.000	8.480	8.850	4.000	4.3	< 30	212.0	221.3	50 - 150	Q1
Acetamiprid	0.000	0.374	0.417	0.400	10.9	< 30	93.5	104.3	50 - 150	
Aldicarb	0.000	0.733	0.835	0.800	13.0	< 30	91.6	104.4	50 - 150	
Abamectin	0.000	1.220	1.290	1.000	5.6	< 30	122.0	129.0	50 - 150	
Azoxystrobin	0.012	0.420	0.451	0.400	7.1	< 30	102.0	109.8	50 - 150	
Bifenazate	0.000	0.388	0.404	0.400	4.0	< 30	97.0	101.0	50 - 150	
Bifenthrin	0.000	1.490	1.460	0.400	2.0	< 30	372.5	365.0	50 - 150	Q1
Boscalid	0.081	0.886	0.897	0.800	1.2	< 30	100.6	102.0	50 - 150	
Carbaryl	0.000	0.395	0.432	0.400	8.9	< 30	98.8	108.0	50 - 150	
Carbofuran	0.000	0.385	0.423	0.400	9.4	< 30	96.3	105.8	50 - 150	
Chlorantraniliprol	0.000	0.356	0.343	0.400	3.7	< 30	89.0	85.8	50 - 150	
Chlorfenapyr	0.000	3.010	3.220	2.000	6.7	< 30	150.5	161.0	50 - 150	Q1
Chlorpyrifos	0.000	0.519	0.539	0.400	3.8	< 30	129.8	134.8	50 - 150	
Clofentezine	0.000	0.448	0.491	0.400	9.2	< 30	112.0	122.8	50 - 150	
Cyfluthrin	0.000	3.760	3.800	2.000	1.1	< 30	188.0	190.0	30 - 150	Q1
Cypermethrin	0.000	2.720	2.920	2.000	7.1	< 30	136.0	146.0	50 - 150	
Daminozide	0.000	1.840	2.070	2.000	11.8	< 30	92.0	103.5	30 - 150	
Diazinon	0.000	0.407	0.456	0.400	11.4	< 30	101.8	114.0	50 - 150	
Dichlorvos	0.000	1.880	2.120	2.000	12.0	< 30	94.0	106.0	50 - 150	
Dimethoat	0.000	0.377	0.415	0.400	9.6	< 30	94.3	103.8	50 - 150	
Ethoprophos	0.000	0.407	0.433	0.400	6.2	< 30	101.8	108.3	50 - 150	
Etofenprox	0.026	1.090	1.100	0.800	0.9	< 30	133.0	134.2	50 - 150	
Etoxazol	0.000	0.472	0.502	0.400	6.2	< 30	118.0	125.5	50 - 150	
Fenoxycarb	0.000	0.376	0.401	0.400	6.4	< 30	94.0	100.3	50 - 150	
Fenpyroximat	0.018	0.843	0.903	0.800	6.9	< 30	103.1	110.6	50 - 150	
Fipronil	0.000	0.841	0.877	0.800	4.2	< 30	105.1	109.6	50 - 150	
Flonicamid	0.000	0.860	1.070	1.000	21.8	< 30	86.0	107.0	50 - 150	
Fludioxonil	0.000	0.718	0.828	0.800	14.2	< 30	89.8	103.5	50 - 150	
Hexythiazox	0.000	1.410	1.450	1.000	2.8	< 30	141.0	145.0	50 - 150	
Imazalil	0.000	0.385	0.418	0.400	8.2	< 30	96.3	104.5	50 - 150	
Imidacloprid	0.000	0.731	0.828	0.800	12.4	< 30	91.4	103.5	50 - 150	
Kresoxim-Methyl	0.000	0.911	0.967	0.800	6.0	< 30	113.9	120.9	50 - 150	
Malathion	0.000	0.384	0.429	0.400	11.1	< 30	96.0	107.3	50 - 150	
Metalaxyl	0.000	0.405	0.415	0.400	2.4	< 30	101.3	103.8	50 - 150	
Methiocarb	0.008	0.412	0.445	0.400	7.7	< 30	101.0	109.3	50 - 150	
Methomyl	0.000	0.578	0.862	0.800	39.4	< 30	72.3	107.8	50 - 150	R
MGK 264	0.000	0.426	0.487	0.400	13.4	< 30	106.5	121.8	50 - 150	
Myclobutanil	0.000	0.404	0.416	0.400	2.9	< 30	101.0	104.0	50 - 150	
Naled	0.000	1.020	1.080	1.000	5.7	< 30	102.0	108.0	50 - 150	
Oxamyl	0.000	1.770	2.060	2.000	15.1	< 30	88.5	103.0	50 - 150	
Paclobutrazol	0.000	0.861	0.909	0.800	5.4	< 30	107.6	113.6	50 - 150	
Parathion Methyl	0.000	0.660	0.867	0.800	27.1	< 30	82.5	108.4	30 - 150	
Permethrin	0.000	0.486	0.528	0.400	8.3	< 30	121.5	132.0	50 - 150	
Phosmet	0.000	0.388	0.394	0.400	1.5	< 30	97.0	98.5	50 - 150	
Piperonyl butoxide	0.031	2.670	2.890	2.000	7.9	< 30	132.0	143.0	50 - 150	
Prallethrin	0.007	0.201	0.219	0.200	8.6	< 30	97.1	106.1	50 - 150	
Propiconazole	0.000	0.839	0.876	0.800	4.3	< 30	104.9	109.5	50 - 150	
Propoxur	0.009	0.381	0.414	0.400	8.3	< 30	92.9	101.2	50 - 150	
Pyrethrins	0.001	0.393	0.411	0.284	4.5	< 30	137.9	144.3	50 - 150	
Pyridaben	0.000	0.699	0.727	0.400	3.9	< 30	174.8	181.8	50 - 150	Q1
Spinosad	0.000	0.427	0.454	0.388	6.1	< 30	110.1	117.0	50 - 150	
Spiromesifen	0.000	0.500	0.520	0.400	3.9	< 30	125.0	130.0	50 - 150	
Spirotetramat	0.000	0.343	0.359	0.400	4.6	< 30	85.8	89.8	50 - 150	
Spiroxamine	0.000	0.795	0.860	0.800	7.9	< 30	99.4	107.5	50 - 150	
Tebuconazol	0.034	0.768	0.842	0.800	9.2	< 30	91.8	101.0	50 - 150	
Thiacloprid	0.000	0.392	0.426	0.400	8.3	< 30	98.0	106.5	50 - 150	
Thiamethoxam	0.000	0.365	0.422	0.400	14.5	< 30	91.3	105.5	50 - 150	
Trifloxystrobin	0.023	0.461	0.512	0.400	7.5	< 30	109.6	122.4	50 - 150	





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#### **Laboratory Quality Control Results**

J AOAC 2015	AOAC 2015 V98-6 Batch ID: 1905386									
Laboratory C	ontrol Sample									
Analyte	Result	Spi	ke U	nits	% Rec	L	imit	s	Evaluation	Notes
CBDV-A	0.196	0.	2	%	98.0	85	-	115	Acceptable	
CBDV	0.206	0.	2	%	103	85	-	115	Acceptable	
CBD-A	0.199	0.	2	%	99.5	85	-	115	Acceptable	
CBG-A	0.192	0.	2	%	96.0	85	-	115	Acceptable	
CBG	0.207	0.	2	%	104	85	-	115	Acceptable	
CBD	0.212	0.	2	%	106	85	-	115	Acceptable	
THCV	0.196	0.	2	%	98.0	85	-	115	Acceptable	
THCVA	0.191	0.	2	%	95.5	85	-	115	Acceptable	
CBN	0.199	0.	2	%	99.5	85	-	115	Acceptable	
THC	0.193	0.	2	%	96.5	85	-	115	Acceptable	
D8THC	0.190	0.	2	%	95.0	85	-	115	Acceptable	
CBL	0.188	0.	2	%	94.0	85	-	115	Acceptable	
CBC	0.204	0.	2	%	102	85	-	115	Acceptable	
THCA	0.196	0.	2	%	98.0	85	-	115	Acceptable	
CBCA	0.186	0.	2	%	93.0	85	-	115	Acceptable	

#### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.1	%	< 0.1	Acceptable	
CBDV	ND	0.1	%	< 0.1	Acceptable	
CBD-A	ND	0.1	%	< 0.1	Acceptable	
CBG-A	ND	0.1	%	< 0.1	Acceptable	
CBG	ND	0.1	%	< 0.1	Acceptable	
CBD	ND	0.1	%	< 0.1	Acceptable	
THCV	ND	0.1	%	< 0.1	Acceptable	
THCVA	ND	0.1	%	< 0.1	Acceptable	
CBN	ND	0.1	%	< 0.1	Acceptable	
THC	ND	0.1	%	< 0.1	Acceptable	
D8THC	ND	0.1	%	< 0.1	Acceptable	
CBL	ND	0.1	%	< 0.1	Acceptable	
CBC	ND	0.1	%	< 0.1	Acceptable	
THCA	ND	0.1	%	< 0.1	Acceptable	
CBCA	ND	0.1	%	< 0.1	Acceptable	

#### Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

## Units of Measure:

% - Percent





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J AOAC 2015 V98-6					Bat	ch ID: 190538	6	
Sample Dupl	icate				Sam	ple ID: <b>19-0067</b>	85-0005	
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBDV	0.583	0.59	0.1	%	1.19	< 20	Acceptable	
CBD-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBG	0.769	0.777	0.1	%	1.03	< 20	Acceptable	
CBD	36.2	36.8	0.1	%	1.64	< 20	Acceptable	
THCV	ND	ND	0.1	%	0	< 20	Acceptable	
THCVA	ND	ND	0.1	%	0	< 20	Acceptable	
CBN	ND	0.0961	0.1	%	3.98	< 20	Acceptable	
THC	1.43	1.45	0.1	%	1.39	< 20	Acceptable	
D8THC	ND	ND	0.1	%	0	< 20	Acceptable	
CBL	0.204	0.194	0.1	%	5.03	< 20	Acceptable	
CBC	ND	ND	0.1	%	0	< 20	Acceptable	
THCA	ND	ND	0.1	%	0	< 20	Acceptable	
CBCA	ND	ND	0.1	%	0	< 20	Acceptable	

#### **Abbreviations**

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

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#### **Explanation of QC Flag Comments:**

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

# **Certificate of Quality Assurance**

PRODUCT NAME: Natural Tincture
PRODUCT STRENGTH: 500 mg
LOT NUMBER: TNAT500-T117
OIL BATCH NUMBER: CONO19-68
DATE OF MANUFACTURE: 6/6/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/6/2019

**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil **INACTIVE INGREDIENTS:** Grapeseed Oil, Hempseed Oil

# Physical Attributes of Raw Hemp Oil

Attribute	Acceptance Criteria	Result
Appearance	Viscous Dark Amber Oil Possible Crystal Formation	Conforms
Aroma	Characteristic Hemp Aroma	Conforms
Dissolution	Not Cloudy or Turbid, Characteristic Color	Conforms
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <2000 cfu/g	Conforms

#### Cannabinoid Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	83.35
CBG	<0.03
CBN	<0.03
THC	ND
CBC	<0.03
THC-A	ND
CBD-A	<0.03

# Pesticides\*

Compound	Result	Compound	Result
Acequinocil	ND	Spinosad	ND
Pyrethrium	ND	Spirotetramat	ND
Spiromesifin	ND	Bifenazate	ND
Abamectin	ND	Fenoxycarb	ND
Imidacloprid	ND	Paclobutrazol	ND



## Terpene Results\*

			I
Compound	Weight %	Compound	Weight %
β-Bisabolene	1.0-3.0	Camphene	0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ-3-Carene	< 0.1

## Residual Solvents\*

Solvent	Weight %
Acetone	Compliant with USP<467>
Butane	Compliant with USP<467>
Ethanol	Compliant with USP<467>
Hexane	Compliant with USP<467>
Isobutane	Compliant with USP<467>
Isopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

# **Certificate of Quality Assurance**

PRODUCT NAME: Natural Tincture
PRODUCT STRENGTH: 500 mg
LOT NUMBER: TNAT500-T117
OIL BATCH NUMBER: CONO19-68
DATE OF MANUFACTURE: 6/6/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/6/2019

**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil **INACTIVE INGREDIENTS:** Grapeseed Oil, Hempseed Oil

### Heavy Metals\*

Metal	Result
Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

#### **Analysis Results for Finished Product**

Attribute	Acceptance Criteria	Result
Appearance	Light Yellow to Green Liquid	Conforms
Aroma	Characteristic Hemp Odor	Conforms
Cannabidiol Content	95% to 110% of Label Claim	Conforms
THC Content	None Detected	Conforms

<sup>\*</sup> Results based on testing of multiple batches of hemp oil raw material.

Certified by:

Matthew Plenert, Ph.D

Head Chemist and Quality Manager

Date

6-24-19





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

 ORELAP#:
 OR100028

**Purchase Order:** 

**Received:** 06/13/19 07:23

Product identity:	TNAT500-T117		Client/I	Metrc ID:	
Laboratory ID:	19-006793-0002		Sample	e Date:	
		Su	ımmary		
Potency:					
Analyte per 30ml	Result Limit	s Units	LOQ	CBD-Total per 30ml	549 mg/30ml
CBD per 30ml	549	mg/30ml	27.6		
				THC-Total per 30ml	< 51.888 mg/30ml
Pesticides:					
All analytes passing ar	nd less than LOQ.				
Metals:					
Less than LOQ for all a	analytes.				
Microbiology:					
Less than LOQ for all a	analytes.				





Job Number: 19-006793

Report Number: 19-006793-00

Report Date: 06/20/2019

ORELAP#: OR100028

**Purchase Order:** 

**Received:** 06/13/19 07:23

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Customer: Beam Organics

Product identity: TNAT500-T117

Client/Metrc ID: .

Sample Date:

Laboratory ID: 19-006793-0002

Relinquished by: Received By Mail

**Temp:** 22.9 °C **Serving Size #1:** 27.6 g

# Sample Results

Potency per 30ml		Batch: 1905	386			
Analyte	Result	Limits Units	LOQ	Analyze	Method	Notes
CBC per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
CBC-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
CBC-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.9	06/18/19	J AOAC 2015 V98-6	
CBD per 30ml	549	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
CBD-A per 30ml	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
CBD-Total per 30ml	549	mg/30ml	51.9	06/18/19	J AOAC 2015 V98-6	
CBDV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
CBDV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
CBDV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.6	06/18/19	J AOAC 2015 V98-6	
CBG per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
CBG-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
CBG-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.9	06/18/19	J AOAC 2015 V98-6	
CBL per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
CBN per 30ml	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
$\Delta 8$ -THC per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
Δ9-THC per 30ml	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
THC-A per 30ml	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
THC-Total per 30ml	< LOQ	mg/30ml	51.9	06/18/19	J AOAC 2015 V98-6	
THCV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
THCV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.6	06/18/19	J AOAC 2015 V98-6	
THCV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.6	06/18/19	J AOAC 2015 V98-6	





 Job Number:
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 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	Χ

Docticidos	Mathed	۸۸۸۸	2007 04 9 EN	15660 (m = d)	Unite ma/ka Batala	1005212	Analu	06/45/40 40:57 DM
Pesticides Analyte	Result		LOQ Status	, ,	Units mg/kg Batch Analyte	Result		ze 06/15/19 12:57 PM LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass	Notes	Acephate	< LOQ	0.40	0.250 pass
		2.0	•		•			·
Acequinocyl	< LOQ		1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ < LOQ	0.40	0.200 pass		Azoxystrobin Bifenthrin	< LOQ < LOQ	0.20	0.100 pass
Bifenazate		0.20	0.100 pass				0.20	0.100 pass
Boscalid	< LOQ	0.40	0.100 pass		Carbaryl	< LOQ	0.20	0.100 pass
Carbofuran	< LOQ	0.20	0.100 pass		Chlorantraniliprole	< LOQ	0.20	0.100 pass
Chlorfenapyr	< LOQ	1.0	0.500 pass		Chlorpyrifos	< LOQ	0.20	0.100 pass
Clofentezine	< LOQ	0.20	0.100 pass		Cyfluthrin (incl.	< LOQ	1.0	0.500 pass
Cypermethrin	< LOQ	1.0	0.500 pass		Daminozide	< LOQ	1.0	0.500 pass
Diazinon	< LOQ	0.20	0.100 pass		Dichlorvos	< LOQ	1.0	0.500 pass
Dimethoate	< LOQ	0.20	0.100 pass		Ethoprophos	< LOQ	0.20	0.100 pass
Etofenprox	< LOQ	0.40	0.200 pass		Etoxazole	< LOQ	0.20	0.100 pass
Fenoxycarb	< LOQ	0.20	0.100 pass		Fenpyroximate	< LOQ	0.40	0.200 pass
Fipronil	< LOQ	0.40	0.200 pass		Flonicamid	< LOQ	1.0	0.400 pass
Fludioxonil	< LOQ	0.40	0.200 pass		Hexythiazox	< LOQ	1.0	0.400 pass
Imazalil	< LOQ	0.20	0.100 pass		Imidacloprid	< LOQ	0.40	0.200 pass
Kresoxim-methyl	< LOQ	0.40	0.200 pass		Malathion	< LOQ	0.20	0.100 pass
Metalaxyl	< LOQ	0.20	0.100 pass		Methiocarb	< LOQ	0.20	0.100 pass
Methomyl	< LOQ	0.40	0.200 pass		MGK-264	< LOQ	0.20	0.100 pass
Myclobutanil	< LOQ	0.20	0.100 pass		Naled	< LOQ	0.50	0.250 pass
Oxamyl	< LOQ	1.0	0.500 pass		Paclobutrazole	< LOQ	0.40	0.200 pass
Parathion-Methyl	< LOQ	0.20	0.200 pass		Permethrin	< LOQ	0.20	0.100 pass
Phosmet	< LOQ	0.20	0.100 pass		Piperonyl butoxide	< LOQ	2.0	1.00 pass
Prallethrin	< LOQ	0.20	0.100 pass		Propiconazole	< LOQ	0.40	0.200 pass
Propoxur	< LOQ	0.20	0.100 pass		Pyrethrin I (total)	< LOQ	1.0	0.500 pass
Pyridaben	< LOQ	0.20	0.100 pass		Spinosad	< LOQ	0.20	0.100 pass
Spiromesifen	< LOQ	0.20	0.100 pass		Spirotetramat	< LOQ	0.20	0.100 pass
Spiroxamine	< LOQ	0.40	0.200 pass		Tebuconazole	< LOQ	0.40	0.200 pass
Thiacloprid	< LOQ	0.20	0.100 pass		Thiamethoxam	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass					





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Cadmium	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Lead	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Mercury	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	X





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

#### This report cannot be used for ODA, OHA or OLCC compliance requirements.

#### **Abbreviations**

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

### Units of Measure

cfu/g = Colony forming units per gram g = Gram mg/kg = Milligram per kilogram = parts per million (ppm) mg/27.6g = Milligram per 27.6g % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

#### Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager



Effective 03/06/2019 Revised 03/06/2019

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



Job Number:

19-006793

**Report Number:** 

19-006793-00

**Report Date:** 

06/20/2019

ORELAP#:

OR100028

**Purchase Order:** 

Received: 06/13/19 07:23

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Company: BEAM							7			A I	· · · ·			-	19-0	00	193 OREL	AP ID: OR100028
				Т	Т	_	_	_		Analy	SIS Re	que	sted					Purchase Order Number:
Contact: n/a			-	nds												Metals	LOQ .1	Project Number:
Address: n/a Email: n/a			-	379 compounds				1						6	ppm			Project Name:
Phone: n/a			٦ ا	Com		1.5				l V	_							
Processor's	Fax:		- Pu	379							iforr				Please	bill/se	nd reports	S Report Instructions:
License:			compounds	- en						JA.	00				to Darc	cie Mor	an's	☐ Send to State - METRC ☐ Email Final Results:
			59 co	esidı						Mold	Tota				accoun	ıt.		☐ Fax Final Results
			OR 5	lti-R		ents	>			pue	and							☐ Cash/Check/CC/Net 30
			1	Mu		Solv	tivit			ast a	Coli	etals	SL					Other:
			Pesticides	Pesticide Multi-Residue	ncy	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Ш			Serving	
Field ID	Date Colle	/Time ected	Pest	Pest	Potency	Resid	Wate	Mois	Ferp	Micro	Micro	leav	Лусо	Other			size	
ΓM500-T116			x		X	387	_			180			2	-	Matrix	Weigh		es Comments/Metrc ID
NAT500-T117			Ŷ							X	Х				Oil		30ml	0.9213
M1000-T118			v		<u>^</u>	222		_		X	Х	_			Oil		30ml	0.9211
M1500-T119			x			100		-		X	Х				Oil		30ml	0.9233
NAT1000-T120			x		<u>`</u>					X	Х	_			Oil		30ml	0.9239
NAT1500-T121			x							X	Х				Oil		30ml	0.9235
			_		`					X	Х	<u> </u>			Oil		30ml	0.9262
Collected By:	Relinqu	uished E	By:			Date		Time		Receiv	ved by:				Date	Т	ime La	b Use Only:
Standard (5 day)	David				(	3/12		2PM		K	2				DOA	0		ient Alias:
□Rush (3-4 day)	71	8	2			6/1	2			71					00/	90	,	der Number:
(1.5x Standard)						, vb				17								oper Container mple Condition
Priority Rush (2 day)						14.2				7	_						~ Le	mperature:
(2x Standard)						THE				1				_			Sh	ipped Via:
	-									-								dence of cooling:

www.pixislabs.com

www.columbiafoodlab.com

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Page 1 of 2





Job Number: 19-006793 **Report Number:** 

19-006793-00

**Report Date:** 

06/20/2019 OR100028

ORELAP#: **Purchase Order:** 

Received: 06/13/19 07:23

Columbia For LABORATORIES	Columbia Food/Pixis Lal Sample Receipt Form	Revision: 1.00 Document Control: CF015 Revised: 04/25/2019 Effective: 05/11/2019
	<b>3</b> Search Name:	
Package/Cooler opened on (if differ	rent than received date/time) Date 514/3/16	Time: 07:23
Received By (Initials):		
Were custody seals on outside If YES, how many and where?	of the package/cooler?	YES NO NA
Were signature and date correct	t?	YES NO NA
2) Were custody papers included i	in the package/cooler?	YES NO NA
3) Were custody papers properly f	illed out (ink, sign, date)?	FES NO NA
4) Did you sign custody papers in	the appropriate place?	YES NO NA
5) How was the package/cooler de	elivered?	
UPS FEDEX U	SPS CLIENT COURIER	OTHER:
Tracking Number (written in o	or copy of shipping label): 4776 18	2880093
6) Was packing material used?		YES NO NA
Peanuts Bubble Wrap Fo	pam Paper Other:	
7) Was sufficient ice used (if appro What kind?	opriate)?	YES NO NA
Blue Ice Ice Co	oler Packs Dry Ice	none
8) Were all sample containers seale	ed in separate plastic bags?	YES NO NA
9) Did all sample containers arrive	in good condition?	(YES) NO NA
10) Were all sample container labels	s complete?	YES NO NA
11) Did all sample container labels a	and tags agree with the coc?	YES NO NA
12) Were correct sample containers	used for the tests indicated?	YES NO NA
13) Were VOA vials checked for abs	sence of air bubbles (note if found)?	XES NO NA
14) Was a sufficient amount of samp	ole sent in each sample container?	YES NO NA
15) Temperature of the samples upon	n receipt (See SOP for proper temps)	<b>20</b> € c
16) Sample location prior to login: R	225 R39 R44 F44 Ambient Shelf	Cannabis Table Other:
Explain any discrepancies:		
2 0		
Page $2$ of $2$		





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN	15662	Unit	s: mg/Kg			Batch	ID: 19053	312
Method Blank				Laboratory Cor	ntrol Samp	ole		
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	ND	< 0.200		1.150	1.000	115.0	70 - 130	
Acequinocyl	ND	< 1.000		4.040	4.000	101.0	70 - 130	
Acetamiprid	ND	< 0.100		0.413	0.400	103.3	70 - 130	
Aldicarb	ND	< 0.200		0.808	0.800	101.0	70 - 130	
Abamectin	ND	< 0.288		0.926	1.000	92.6	70 - 130	
Azoxystrobin	ND	< 0.100		0.395	0.400	98.8	70 - 130	
Bifenazate	ND	< 0.100		0.395	0.400	98.8	70 - 130	
Bifenthrin	ND	< 0.100		0.386	0.400	96.5	70 - 130	
Boscalid	ND	< 0.100		0.801	0.800	100.1	70 - 130	l
Carbaryl	ND	< 0.100	1	0.401	0.400	100.3	70 - 130	
Carbofuran	ND	< 0.100		0.403	0.400	100.8	70 - 130	
Chlorantraniliprol	ND	< 0.100		0.357	0.400	89.3	70 - 130	
Chlorfenapyr	ND	< 1.000		1.730	2.000	86.5	70 - 130	
Chlorpyrifos	ND	< 0.100		0.383	0.400	95.8	70 - 130	
Clofentezine	ND	< 0.100	1	0.399	0.400	99.8	70 - 130	1
Cyfluthrin	ND	< 1.000		1.800	2.000	90.0	30 - 150	
Cypermethrin	ND	< 1.000	1	2.050	2.000	102.5	70 - 130	1
Daminozide	ND	< 1.000		2.140	2.000	107.0	30 - 150	
Diazinon	ND	< 0.100		0.403	0.400	100.8	70 - 130	l
Dichlorvos	ND	< 0.500	1	1.920	2.000	96.0	70 - 130	
Dimethoat	ND	< 0.100	1	0.404	0.400	101.0	70 - 130	
Ethoprophos	ND	< 0.100	1	0.408	0.400	102.0	70 - 130	
Etofenprox	ND	< 0.100	+	0.789	0.800	98.6	70 - 130	<del>                                     </del>
Etoxazol	ND	< 0.100	1	0.393	0.400	98.3	70 - 130	
enoxycarb	ND	< 0.100	1	0.387	0.400	96.8	70 - 130	l -
enpyroximat	ND	< 0.100	+	0.783	0.800	97.9	70 - 130	_
ipronil	ND	< 0.100	1	0.763	0.800	95.4	70 - 130	<del>                                     </del>
lonicamid	ND	< 0.400	1	1.030	1.000	103.0	70 - 130	<del>                                     </del>
ludioxonil	ND ND	< 0.100	+	0.739	0.800	92.4	70 - 130	_
Hexythiazox	ND ND	< 0.400	+	1.010	1.000	101.0	70 - 130	-
mazalil	ND ND	< 0.100	-	0.421	0.400	105.3	70 - 130	<u> </u>
midacloprid	ND ND	< 0.200	+	0.784	0.800	98.0	70 - 130	-
Kresoxim-Methyl	ND ND	< 0.100	-	0.819	0.800	102.4	70 - 130	-
Malathion	ND ND	< 0.100		0.390	0.400	97.5	70 - 130	_
Metalaxyl	ND ND	< 0.100	+	0.388	0.400	97.0	70 - 130	<u> </u>
Methiocarb	ND ND	< 0.100	+	0.398	0.400	99.5	70 - 130	<del>                                     </del>
Methomyl	ND ND	< 0.200	+	0.860	0.800	107.5	70 - 130	-
MGK 264	ND ND	< 0.100	+	0.400	0.400	100.0	70 - 130	-
Myclobutanil	ND ND	< 0.100	-	0.394	0.400	98.5	70 - 130	<u> </u>
Naled	ND ND	< 0.200	-	0.962	1.000	96.2	70 - 130	-
Oxamyl	ND ND	< 0.400	-	2.020	2.000	101.0	70 - 130	<u> </u>
Paclobutrazol	ND ND	< 0.200	1	0.797	0.800	99.6	70 - 130	-
Parathion Methyl	ND ND	< 0.200	+	0.758	0.800	94.8	30 - 150	-
Permethrin	ND ND	< 0.100	+	0.400	0.400	100.0	70 - 130	-
Phosmet	ND ND	< 0.100	+	0.400	0.400	100.0	70 - 130	-
Piperonyl butoxide	ND ND	< 1.000	-	1.910	2.000	95.5	70 - 130	-
Prallethrin	ND I	< 0.200	+	0.203	0.200	101.5	70 - 130	
rranetnrin Propiconazole	ND ND	< 0.200	-	0.805	0.200	100.6	70 - 130	_
ropiconazoie Propoxur	ND ND	< 0.100	-	0.402	0.400	100.6	70 - 130	-
Pyrethrins	ND ND	< 0.100	_	0.302	0.400	106.3	70 - 130	-
	ND ND		-	0.302	0.284	106.3 136.8	70 - 130	Q1
Pyridaben	117	< 0.100	-			(7)7.0000		Į Q1
pinosad	ND ND	< 0.100		0.423	0.388	109.0	70 - 130	
piromesifen	ND ND	< 0.100		0.364	0.400	91.0	70 - 130	
pirotetramat	ND	< 0.100		0.392	0.400	98.0	70 - 130	
piroxamine	ND	< 0.100		0.859	0.800	107.4	70 - 130	
ebuconazol	ND	< 0.200		0.756	0.800	94.5	70 - 130	
hiacloprid	ND	< 0.100		0.414	0.400	103.5	70 - 130	
Thiamethoxam	ND	< 0.100		0.418	0.400	104.5	70 - 130	
Frifloxystrobin	ND	< 0.100	i	0.389	0.400	97.3	70 - 130	





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 1	5662		Units:	mg/Kg				Batch	ID: 19053	12
Matrix Spike/Matrix	Spike Duplic	ate Reco	veries			S	ample ID:	19-00679	3-0002	
Analyte	Result	MS Res	MSD Res	Spike	RP	RPD% MS % Rec			Limits	Notes
Acephate	0.000	0.745	0.860	1.000	14.3	< 30	74.5	86.0	50 - 150	
Acequinocyl	0.000	8.480	8.850	4.000	4.3	< 30	212.0	221.3	50 - 150	Q1
Acetamiprid	0.000	0.374	0.417	0.400	10.9	< 30	93.5	104.3	50 - 150	
Aldicarb	0.000	0.733	0.835	0.800	13.0	< 30	91.6	104.4	50 - 150	
Abamectin	0.000	1.220	1.290	1.000	5.6	< 30	122.0	129.0	50 - 150	
Azoxystrobin	0.012	0.420	0.451	0.400	7.1	< 30	102.0	109.8	50 - 150	
Bifenazate	0.000	0.388	0.404	0.400	4.0	< 30	97.0	101.0	50 - 150	
Bifenthrin	0.000	1.490	1.460	0.400	2.0	< 30	372.5	365.0	50 - 150	Q1
3oscalid	0.081	0.886	0.897	0.800	1.2	< 30	100.6	102.0	50 - 150	
Carbaryl	0.000	0.395	0.432	0.400	8.9	< 30	98.8	108.0	50 - 150	
Carbofuran	0.000	0.385	0.423	0.400	9.4	< 30	96.3	105.8	50 - 150	
Chlorantraniliprol	0.000	0.356	0.343	0.400	3.7	< 30	89.0	85.8	50 - 150	
Chlorfenapyr	0.000	3.010	3.220	2.000	6.7	< 30	150.5	161.0	50 - 150	Q1
Chlorpyrifos	0.000	0.519	0.539	0.400	3.8	< 30	129.8	134.8	50 - 150	
Clofentezine	0.000	0.448	0.491	0.400	9.2	< 30	112.0	122.8	50 - 150	
yfluthrin	0.000	3.760	3.800	2.000	1.1	< 30	188.0	190.0	30 - 150	Q1
Cypermethrin	0.000	2.720	2.920	2.000	7.1	< 30	136.0	146.0	50 - 150	
Daminozide	0.000	1.840	2.070	2.000	11.8	< 30	92.0	103.5	30 - 150	
Diazinon	0.000	0.407	0.456	0.400	11.4	< 30	101.8	114.0	50 - 150	
Dichlorvos	0.000	1.880	2.120	2.000	12.0	< 30	94.0	106.0	50 - 150	
Dimethoat	0.000	0.377	0.415	0.400	9.6	< 30	94.3	103.8	50 - 150	
Ethoprophos	0.000	0.407	0.433	0.400	6.2	< 30	101.8	108.3	50 - 150	
Etofenprox	0.026	1.090	1.100	0.800	0.9	< 30	133.0	134.2	50 - 150	
toxazol	0.000	0.472	0.502	0.400	6.2	< 30	118.0	125.5	50 - 150	<u> </u>
enoxycarb	0.000	0.376	0.401	0.400	6.4	< 30	94.0	100.3	50 - 150	-
enpyroximat	0.018	0.843	0.903	0.800	6.9	< 30	103.1	110.6	50 - 150	
ipronil	0.000	0.841	0.903	0.800	4.2	< 30	105.1	109.6	50 - 150	-
Flonicamid	0.000	0.860	1.070	1.000	21.8	< 30	86.0	107.0	50 - 150	
ludioxonil	0.000	0.718	0.828	0.800	14.2	< 30	89.8	103.5	50 - 150	_
Hexythiazox	0.000	1.410	1.450	1.000	2.8	< 30	141.0	145.0	50 - 150	
mazalil	0.000	0.385	0.418	0.400	8.2	< 30	96.3	104.5	50 - 150	
midacloprid	0.000	0.731	0.828	0.800	12.4	< 30	91.4	103.5	50 - 150	<u> </u>
Kresoxim-Methyl	0.000	0.731	0.967	0.800	6.0	< 30	113.9	120.9	50 - 150	
Malathion	0.000	0.311	0.429	0.400	11.1	< 30	96.0	107.3	50 - 150	
Metalaxyl	0.000	0.405	0.425	0.400	2.4	< 30	101.3	107.3	50 - 150	
Methiocarb	0.008	0.403	0.415	0.400	7.7	< 30	101.0	109.8	50 - 150	
Methomyl	0.000	0.412	0.862	0.400	39.4	< 30	72.3	109.3	50 - 150	R
MGK 264	0.000	0.378	0.487	0.400	13.4	< 30	106.5	121.8	50 - 150	, R
Myclobutanil	0.000	0.426	0.487	0.400	2.9	< 30	101.0	104.0	50 - 150	
				200000000000000000000000000000000000000	220A122		T T T T T T T T T T T T T T T T T T T			
Naled	0.000	1.020	1.080 2.060	1.000 2.000	5.7 15.1	< 30	102.0 88.5	108.0	50 - 150 50 - 150	
Dxamyl Paclobutrazol	0.000	1.770 0.861	0.909	0.800	5.4	< 30	107.6	113.6	50 - 150	
Parathion Methyl	0.000	0.660	0.867 0.528	0.800	27.1	< 30	82.5 121.5	108.4 132.0	30 - 150 50 - 150	ļ
Permethrin	0.000	0.486		ie.c.e.e.e.e.	8.3	< 30				
Phosmet	0.000	0.388	0.394	0.400	1.5	< 30	97.0	98.5	50 - 150	<u> </u>
Piperonyl butoxide	0.031	2.670	2.890	2.000	7.9	< 30	132.0	143.0	50 - 150	
Prallethrin	0.007	0.201	0.219	0.200	8.6	< 30	97.1	106.1	50 - 150	
Propiconazole	0.000	0.839	0.876	0.800	4.3	< 30	104.9	109.5	50 - 150	
ropoxur	0.009	0.381	0.414	0.400	8.3	< 30	92.9	101.2	50 - 150	
Pyrethrins	0.001	0.393	0.411	0.284	4.5	< 30	137.9	144.3	50 - 150	
yridaben	0.000	0.699	0.727	0.400	3.9	< 30	174.8	181.8	50 - 150	Q1
pinosad	0.000	0.427	0.454	0.388	6.1	< 30	110.1	117.0	50 - 150	
piromesifen	0.000	0.500	0.520	0.400	3.9	< 30	125.0	130.0	50 - 150	
pirotetramat	0.000	0.343	0.359	0.400	4.6	< 30	85.8	89.8	50 - 150	
piroxamine	0.000	0.795	0.860	0.800	7.9	< 30	99.4	107.5	50 - 150	
ebuconazol	0.034	0.768	0.842	0.800	9.2	< 30	91.8	101.0	50 - 150	
hiacloprid	0.000	0.392	0.426	0.400	8.3	< 30	98.0	106.5	50 - 150	
hiamethoxam	0.000	0.365	0.422	0.400	14.5	< 30	91.3	105.5	50 - 150	
Trifloxystrobin	0.023	0.461	0.512	0.400	7.5	< 30	109.6	122.4	50 - 150	





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

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#### **Laboratory Quality Control Results**

J AOAC 2015	5 V98-6			Bat	ch ID: 1905386		
Laboratory C	ontrol Sample						
Analyte	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.196	0.2	%	98.0	85 - 115	Acceptable	
CBDV	0.206	0.2	%	103	85 - 115	Acceptable	
CBD-A	0.199	0.2	%	99.5	85 - 115	Acceptable	
CBG-A	0.192	0.2	%	96.0	85 - 115	Acceptable	
CBG	0.207	0.2	%	104	85 - 115	Acceptable	
CBD	0.212	0.2	%	106	85 - 115	Acceptable	
THCV	0.196	0.2	%	98.0	85 - 115	Acceptable	
THCVA	0.191	0.2	%	95.5	85 - 115	Acceptable	
CBN	0.199	0.2	%	99.5	85 - 115	Acceptable	
THC	0.193	0.2	%	96.5	85 - 115	Acceptable	
D8THC	0.190	0.2	%	95.0	85 - 115	Acceptable	
CBL	0.188	0.2	%	94.0	85 - 115	Acceptable	
CBC	0.204	0.2	%	102	85 - 115	Acceptable	
THCA	0.196	0.2	%	98.0	85 - 115	Acceptable	
CBCA	0.186	0.2	%	93.0	85 - 115	Acceptable	

#### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.1	%	< 0.1	Acceptable	
CBDV	ND	0.1	%	< 0.1	Acceptable	
CBD-A	ND	0.1	%	< 0.1	Acceptable	
CBG-A	ND	0.1	%	< 0.1	Acceptable	
CBG	ND	0.1	%	< 0.1	Acceptable	
CBD	ND	0.1	%	< 0.1	Acceptable	
THCV	ND	0.1	%	< 0.1	Acceptable	
THCVA	ND	0.1	%	< 0.1	Acceptable	
CBN	ND	0.1	%	< 0.1	Acceptable	
THC	ND	0.1	%	< 0.1	Acceptable	
D8THC	ND	0.1	%	< 0.1	Acceptable	
CBL	ND	0.1	%	< 0.1	Acceptable	
CBC	ND	0.1	%	< 0.1	Acceptable	
THCA	ND	0.1	%	< 0.1	Acceptable	
CBCA	ND	0.1	%	< 0.1	Acceptable	

#### Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

#### Units of Measure:

% - Percent





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 19-006793

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 06/20/2019

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J AOAC 2015 V				Bat				
Sample Duplica		Sample ID: 19-006785-0005						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBDV	0.583	0.59	0.1	%	1.19	< 20	Acceptable	
CBD-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBG	0.769	0.777	0.1	%	1.03	< 20	Acceptable	
CBD	36.2	36.8	0.1	%	1.64	< 20	Acceptable	
THCV	ND	ND	0.1	%	0	< 20	Acceptable	
THCVA	ND	ND	0.1	%	0	< 20	Acceptable	
CBN	ND	0.0961	0.1	%	3.98	< 20	Acceptable	
THC	1.43	1.45	0.1	%	1.39	< 20	Acceptable	
D8THC	ND	ND	0.1	%	0	< 20	Acceptable	
CBL	0.204	0.194	0.1	%	5.03	< 20	Acceptable	
CBC	ND	ND	0.1	%	0	< 20	Acceptable	
THCA	ND	ND	0.1	%	0	< 20	Acceptable	
CBCA	ND	ND	0.1	%	0	< 20	Acceptable	

#### **Abbreviations**

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

#### Units of Measure:

% - Percent





 Job Number:
 19-006793

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#### **Explanation of QC Flag Comments:**

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

# **Certificate of Quality Assurance**

PRODUCT NAME: Natural Tincture PRODUCT STRENGTH: 1500 mg LOT NUMBER: TNAT1500-T121 OIL BATCH NUMBER: CONO19-68 DATE OF MANUFACTURE: 6/6/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/6/2019

**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil **INACTIVE INGREDIENTS:** Grapeseed Oil, Hempseed Oil

# Physical Attributes of Raw Hemp Oil

Attribute	Acceptance Criteria	Result
Appearance	Viscous Dark Amber Oil Possible Crystal Formation	Conforms
Aroma	Characteristic Hemp Aroma	Conforms
Dissolution	Not Cloudy or Turbid, Characteristic Color	Conforms
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <2000 cfu/g	Conforms

#### Cannabinoid Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	83.35
CBG	<0.03
CBN	<0.03
THC	ND
СВС	<0.03
THC-A	ND
CBD-A	<0.03

### Pesticides\*

Compound	Result	Compound	Result
Acequinocil	ND	Spinosad	ND
Pyrethrium ND		Spirotetramat	ND
Spiromesifin	ND	Bifenazate	ND
Abamectin	ND	Fenoxycarb	ND
Imidacloprid	ND	Paclobutrazol	ND

# beam

### Terpene Results\*

Compound	Weight %	Compound	Weight %
β-Bisabolene	1.0-3.0	Camphene	0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ-3-Carene	< 0.1

# Residual Solvents\*

Solvent	Weight %
Acetone	Compliant with USP<467>
Butane	Compliant with USP<467>
Ethanol	Compliant with USP<467>
Hexane	Compliant with USP<467>
Isobutane	Compliant with USP<467>
Isopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

# **Certificate of Quality Assurance**

PRODUCT NAME: Natural Tincture PRODUCT STRENGTH: 1500 mg LOT NUMBER: TNAT1500-T121 OIL BATCH NUMBER: CONO19-68 DATE OF MANUFACTURE: 6/6/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/6/2019

**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil **INACTIVE INGREDIENTS:** Grapeseed Oil, Hempseed Oil

# Heavy Metals\*

Metal	Result
Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

## **Analysis Results for Finished Product**

Analysis results for i misrica i roduce						
Attribute	Acceptance Criteria	Result				
Appearance	Light Yellow to Green Liquid	Conforms				
Aroma	Characteristic Hemp Odor	Conforms				
Cannabidiol Content	95% to 110% of Label Claim	Conforms				
THC Content	None Detected	Conforms				

\* Results based on testing of multiple batches of hemp oil raw material.

Certified by:

Matthew Plenert, Ph.D

Head Chemist and Quality Manager

Date

6-24-19





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

Product identity:	TNAT1500-T121			Client/N	Metrc ID:				
Laboratory ID:	19-006793-0006			Sample Date:					
			Su	mmary					
Potency:									
Analyte per 30ml	Result L	Limits	Units	LOQ	CBD-Total per 30ml				
CBD per 30ml	1670		mg/30ml	27.8	THC-Total per 30ml	< 52.264 mg/30ml			
Pesticides:									
All analytes passing a	and less than LOQ.								
Metals:									
Less than LOQ for all	analytes.								
Microbiology:									
Less than LOQ for all	analytes.								





Job Number: 19-006793

Report Number: 19-006793-00

Report Date: 06/20/2019

ORELAP#: OR100028

**Purchase Order:** 

**Received:** 06/13/19 07:23

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Customer: Beam Organics

Product identity: TNAT1500-T121

Client/Metrc ID: .

Sample Date:

Laboratory ID: 19-006793-0006

Relinquished by: Received By Mail

**Temp:** 22.9 °C **Serving Size #1:** 27.8 g

# Sample Results

Potency per 30ml		Batch: 1905	386			
Analyte	Result	Limits Units	LOQ	Analyze	Method	Notes
CBC per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
CBC-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
CBC-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.3	06/18/19	J AOAC 2015 V98-6	
CBD per 30ml	1670	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
CBD-A per 30ml	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
CBD-Total per 30ml	1670	mg/30ml	52.3	06/18/19	J AOAC 2015 V98-6	
CBDV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
CBDV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
CBDV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.0	06/18/19	J AOAC 2015 V98-6	
CBG per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
CBG-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
CBG-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.3	06/18/19	J AOAC 2015 V98-6	
CBL per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
CBN per 30ml	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
$\Delta 8\text{-THC per }30\text{ml}^{\dagger}$	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
Δ9-THC per 30ml	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
THC-A per 30ml	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
THC-Total per 30ml	< LOQ	mg/30ml	52.3	06/18/19	J AOAC 2015 V98-6	
THCV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
THCV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.8	06/18/19	J AOAC 2015 V98-6	
THCV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.0	06/18/19	J AOAC 2015 V98-6	





Job Number: 19-006793

Report Number: 19-006793-00

Report Date: 06/20/2019

ORELAP#: OR100028

**Purchase Order:** 

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Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	Χ

Docticidos	Mathed	۸۸۸۸	2007 04 9 EN	15660 (m = d)	Unite ma/ka Batala	1005212	Analu	06/45/40 40:57 DM
Pesticides Analyte	Result		LOQ Status	, ,	Units mg/kg Batch Analyte	Result		ze 06/15/19 12:57 PM LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass	Notes	Acephate	< LOQ	0.40	0.250 pass
		2.0	•		•			·
Acequinocyl	< LOQ		1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ < LOQ	0.40	0.200 pass		Azoxystrobin Bifenthrin	< LOQ < LOQ	0.20	0.100 pass
Bifenazate		0.20	0.100 pass				0.20	0.100 pass
Boscalid	< LOQ	0.40	0.100 pass		Carbaryl	< LOQ	0.20	0.100 pass
Carbofuran	< LOQ	0.20	0.100 pass		Chlorantraniliprole	< LOQ	0.20	0.100 pass
Chlorfenapyr	< LOQ	1.0	0.500 pass		Chlorpyrifos	< LOQ	0.20	0.100 pass
Clofentezine	< LOQ	0.20	0.100 pass		Cyfluthrin (incl.	< LOQ	1.0	0.500 pass
Cypermethrin	< LOQ	1.0	0.500 pass		Daminozide	< LOQ	1.0	0.500 pass
Diazinon	< LOQ	0.20	0.100 pass		Dichlorvos	< LOQ	1.0	0.500 pass
Dimethoate	< LOQ	0.20	0.100 pass		Ethoprophos	< LOQ	0.20	0.100 pass
Etofenprox	< LOQ	0.40	0.200 pass		Etoxazole	< LOQ	0.20	0.100 pass
Fenoxycarb	< LOQ	0.20	0.100 pass		Fenpyroximate	< LOQ	0.40	0.200 pass
Fipronil	< LOQ	0.40	0.200 pass		Flonicamid	< LOQ	1.0	0.400 pass
Fludioxonil	< LOQ	0.40	0.200 pass		Hexythiazox	< LOQ	1.0	0.400 pass
Imazalil	< LOQ	0.20	0.100 pass		Imidacloprid	< LOQ	0.40	0.200 pass
Kresoxim-methyl	< LOQ	0.40	0.200 pass		Malathion	< LOQ	0.20	0.100 pass
Metalaxyl	< LOQ	0.20	0.100 pass		Methiocarb	< LOQ	0.20	0.100 pass
Methomyl	< LOQ	0.40	0.200 pass		MGK-264	< LOQ	0.20	0.100 pass
Myclobutanil	< LOQ	0.20	0.100 pass		Naled	< LOQ	0.50	0.250 pass
Oxamyl	< LOQ	1.0	0.500 pass		Paclobutrazole	< LOQ	0.40	0.200 pass
Parathion-Methyl	< LOQ	0.20	0.200 pass		Permethrin	< LOQ	0.20	0.100 pass
Phosmet	< LOQ	0.20	0.100 pass		Piperonyl butoxide	< LOQ	2.0	1.00 pass
Prallethrin	< LOQ	0.20	0.100 pass		Propiconazole	< LOQ	0.40	0.200 pass
Propoxur	< LOQ	0.20	0.100 pass		Pyrethrin I (total)	< LOQ	1.0	0.500 pass
Pyridaben	< LOQ	0.20	0.100 pass		Spinosad	< LOQ	0.20	0.100 pass
Spiromesifen	< LOQ	0.20	0.100 pass		Spirotetramat	< LOQ	0.20	0.100 pass
Spiroxamine	< LOQ	0.40	0.200 pass		Tebuconazole	< LOQ	0.40	0.200 pass
Thiacloprid	< LOQ	0.20	0.100 pass		Thiamethoxam	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass					





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**Purchase Order:** 

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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	X
Cadmium	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Lead	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Mercury	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	X





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Report Date: 06/20/2019

ORELAP#: OR100028

**Purchase Order:** 

**Received:** 06/13/19 07:23

#### This report cannot be used for ODA, OHA or OLCC compliance requirements.

#### **Abbreviations**

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

### Units of Measure

cfu/g = Colony forming units per gram g = Gram mg/kg = Milligram per kilogram = parts per million (ppm) mg/27.8g = Milligram per 27.8g % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

#### Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager





Job Number:

19-006793

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19-006793-00

ORELAP#:

06/20/2019 OR100028

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This report cannot be used for ODA, OHA or OLCC compliance requirements.

12423 NE Whitaker Way	Portland O	R 97230	p.503	-254-1	1794	C	anna	bis (	Chair	of (	Cust	ody	Reco	ord	10-10	21.7	0.0	PIXIS Labs
Company: BEAM									-	Analy	sis R	eque	sted	1	141 0	001	1 3 ORELA	P ID: OR100028
Contact: n/a										T		Ť	Т	4	Llaavii.	NA-4-1-	100.1	Purchase Order Number:
Address: n/a				379 compounds		- 61									ppm	Metals	LOQ .1	Project Number:
<sub>Email:</sub> n/a			1	l od m	-										P			Project Name:
Phone: n/a	Fax:		ds s	9 00							E				L.			C Beneat Last and
Processor's License:			- OR 59 compounds	Pesticide Multi-Residue – 37		olvents	vity			Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	als			Please to Dard accour	cie Mora	d reports n's	☐ Report Instructions: ☐ Send to State - METRC ☑ Email Final Results: ☐ Fax Final Results ☐ Cash/Check/CC/Net 30 Other:
Field ID	Date, Colle	/Time ected	Pesticides	Pesticide N	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeas	Micro: E.Co	Heavy Metals	Mycotoxins	Other	Matrix	Weight	Serving size for edibles	Comments/Metrc ID
TM500-T116			x		x	18				x	×	<u> </u>			Oil	Weight		
TNAT500-T117			х		x				-	x	×		-		Oil			0.9213
ГМ1000-Т118			x		x	100				×	×				Oil			0.9211
ГМ1500-Т119			x		×					<u>,                                     </u>	×	_	-		Oil			0.9233
ΓNAT1000-T120			x		x					<u></u>	^	-			Oil			0.9239
NAT1500-T121			x		x					_	×							0.9235
					_					^		<u> </u>			Oil		30ml	0.9262
Collected By:	Relingu	uished B	v:			Date		Time		Possi	ved by							
☑Standard (5 day)	David	Boaz				5/12		2PM		necer	ved by				Date	~	lot:	Use Only: nt Alias:
□ Rush (3-4 day)	71					6/1,		LI IVI		11					D6/	300	1 12	er Number:
(1.5x Standard)	7				-	6/1/	<		1	· ·					4			per Container
□Priority Rush (2 day) (2x Standard)						14 14											em	ple Condition perature:
										-				1			Evid	ence of cooling:

MISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 1.03 Control#: CF023 Effective 03/06/2019 Revised 03/06/2019

www.pixislabs.com www.columbiafoodlab.com

Page 1 of 2





Job Number: 19-006793 **Report Number:** 19-006793-00

**Report Date:** 06/20/2019

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Columbia Food  LABORATORIES  LA A Tentamus Company	Columbia Food/Pixis Labs Sample Receipt Form	Revision: 1.00 Document Control: CF015 Revised: 04/25/2019 Effective: 05/11/2019
Job Number: 19-006	9793 Search Name:	
Package/Cooler opened on (if different th	an received date/time) Date SUA311 Time	e: 07:23
Received By (Initials):		
Were custody seals on outside of the If YES, how many and where?	package/cooler? YI	ES NO NA
Were signature and date correct?	YI	ES NO NÀ
2) Were custody papers included in the p	package/cooler?	NO NA
3) Were custody papers properly filled o	ut (ink, sign, date)?	NO NA
4) Did you sign custody papers in the ap	propriate place?	NO NA
5) How was the package/cooler delivered	d?	
UPS FEDEX USPS	CLIENT COURIER OT	`HER:
Tracking Number (written in or copy	of shipping label): 4776 1289	50093
6) Was packing material used?	YE	9 NO NA
Peanuts Bubble Wrap Foam	Paper Other:	<u></u>
7) Was sufficient ice used (if appropriate What kind?	)? YE	s no na
Blue Ice Ice Cooler Pa	acks Dry Ice	none
8) Were all sample containers sealed in se	eparate plastic bags?	S NO NA
9) Did all sample containers arrive in goo	d condition?	S) NO NA
10) Were all sample container labels comp	lete?	NO NA
11) Did all sample container labels and tag	s agree with the coc?	NO NA
12) Were correct sample containers used for	or the tests indicated?	8 NO NA
13) Were VOA vials checked for absence of	of air bubbles (note if found)?	S NO NA
14) Was a sufficient amount of sample sen	t in each sample container?	NO NA
15) Temperature of the samples upon recei	pt (See SOP for proper temps)	€ °C
6) Sample location prior to login: R25	R39 R44 F44 Ambient Shelf Can	nabis Table Other:
Explain any discrepancies:		
2 2		
age of		





 Job Number:
 19-006793

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 19-006793-00

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 06/20/2019

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OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN	15662	Units	s: mg/Kg			Batch ID: 1905312				
Method Blank				Laboratory Cor						
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes		
Acephate	ND	< 0.200		1.150	1.000	115.0	70 - 130			
Acequinocyl	ND	< 1.000	1	4.040	4.000	101.0	70 - 130			
Acetamiprid	ND	< 0.100		0.413	0.400	103.3	70 - 130			
Aldicarb	ND	< 0.200		0.808	0.800	101.0	70 - 130			
Abamectin	ND	< 0.288		0.926	1.000	92.6	70 - 130			
Azoxystrobin	ND	< 0.100	1	0.395	0.400	98.8	70 - 130	1		
Bifenazate	ND	< 0.100	1	0.395	0.400	98.8	70 - 130	1		
Bifenthrin	ND	< 0.100		0.386	0.400	96.5	70 - 130			
Boscalid	ND	< 0.100		0.801	0.800	100.1	70 - 130	İ		
Carbaryl	ND	< 0.100		0.401	0.400	100.3	70 - 130			
Carbofuran	ND	< 0.100	1	0.403	0.400	100.8	70 - 130			
Chlorantraniliprol	ND	< 0.100	1	0.357	0.400	89.3	70 - 130	l		
Chlorfenapyr	ND	< 1.000		1.730	2.000	86.5	70 - 130			
Chlorpyrifos	ND	< 0.100	1	0.383	0.400	95.8	70 - 130			
Clofentezine	ND	< 0.100	1	0.399	0.400	99.8	70 - 130	1		
Cyfluthrin	ND	< 1.000	1	1.800	2.000	90.0	30 - 150	l		
Cypermethrin	ND	< 1.000		2.050	2.000	102.5	70 - 130			
Daminozide	ND	< 1.000	1	2.140	2.000	107.0	30 - 150			
Diazinon	ND	< 0.100	1	0.403	0.400	100.8	70 - 130			
Dichlorvos	ND ND	< 0.500	1	1.920	2.000	96.0	70 - 130	<b>—</b>		
Dimethoat	ND ND	< 0.100	_	0.404	0.400	101.0	70 - 130			
Ethoprophos	ND	< 0.100	-	0.408	0.400	102.0	70 - 130			
Etofenprox	ND ND	< 0.100	1	0.789	0.800	98.6	70 - 130	<u> </u>		
Etoxazol	ND	< 0.100	1	0.393	0.400	98.3	70 - 130			
Fenoxycarb	ND	< 0.100	1	0.387	0.400	96.8	70 - 130	<del> </del>		
Fenpyroximat	ND ND	< 0.100	+	0.783	0.800	97.9	70 - 130	<u> </u>		
Fipronil	ND ND	< 0.100	+	0.763	0.800	95.4	70 - 130	<u> </u>		
Flonicamid	ND ND	< 0.400	1	1.030	1.000	103.0	70 - 130	<del>                                     </del>		
Fludioxonil	ND ND	< 0.100	+	0.739	0.800	92.4	70 - 130			
Hexythiazox	ND ND	< 0.400	-	1.010	1.000	101.0	70 - 130	-		
Imazalil	ND ND	< 0.100	-	0.421	0.400	105.3	70 - 130			
Imidacloprid	ND	< 0.200	-	0.784	0.800	98.0	70 - 130	-		
Kresoxim-Methyl	ND ND	< 0.100	+	0.819	0.800	102.4	70 - 130	<u> </u>		
Malathion	ND ND	< 0.100	1	0.390	0.400	97.5	70 - 130	<u> </u>		
Metalaxyl	ND ND	< 0.100	1	0.388	0.400	97.0	70 - 130	-		
Methiocarb	ND ND	< 0.100	1	0.398	0.400	99.5	70 - 130	<del>                                     </del>		
Methomyl	ND ND	< 0.200	+	0.860	0.800	107.5	70 - 130	-		
MGK 264	ND ND	< 0.100	+	0.400	0.400	100.0	70 - 130	<del>                                     </del>		
Myclobutanil	ND ND	< 0.100	-	0.394	0.400	98.5	70 - 130	-		
Naled	ND	< 0.200	-	0.962	1.000	96.2	70 - 130	-		
Oxamyl	ND ND	< 0.400	1	2.020	2.000	101.0	70 - 130	<del>                                     </del>		
Paclobutrazol	ND ND	< 0.200	1	0.797	0.800	99.6	70 - 130			
Parathion Methyl	ND ND	< 0.200	1	0.758	0.800	94.8	30 - 150			
Permethrin	ND ND	< 0.100	1	0.400	0.400	100.0	70 - 130	<del> </del>		
Phosmet	ND ND	< 0.100	+	0.407	0.400	101.8	70 - 130	<u> </u>		
Piperonyl butoxide	ND ND	< 1.000	+	1.910	2.000	95.5	70 - 130			
Prallethrin	ND I	< 0.200	1	0.203	0.200	101.5	70 - 130	<del> </del>		
Propiconazole	ND ND	< 0.200	1	0.805	0.800	100.6	70 - 130			
Propoxur	ND ND	< 0.100	1	0.402	0.400	100.5	70 - 130	1		
Pyrethrins	ND ND	< 0.500	1	0.302	0.284	106.3	70 - 130			
Pyridaben	ND ND	< 0.100	1	0.547	0.204	136.8	70 - 130	01		
Spinosad	ND ND	< 0.100	+	0.423	0.388	109.0	70 - 130	<u> </u>		
Spiromesifen	ND ND	< 0.100	+	0.364	0.400	91.0	70 - 130	_		
Spirotetramat	ND ND	< 0.100	1	0.392	0.400	98.0	70 - 130	-		
Spiroxamine	ND ND	< 0.100	1	0.859	0.800	107.4	70 - 130	<del>                                     </del>		
rebuconazol	ND ND	< 0.200	1	0.756	0.800	94.5	70 - 130	-		
Thiacloprid	ND ND	< 0.100	-	0.414	0.400	103.5	70 - 130	-		
Thiaciopriu Thiamethoxam	ND ND	< 0.100	-	0.414	0.400	103.5	70 - 130	-		
Frifloxystrobin	ND I	< 0.100	-	0.418	0.400	97.3	70 - 130			
THIOXYSTIODIII	IND	< 0.100	1	0.369	0.400	97.3	70 - 130			





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Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

#### **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 1	15662		Units:	mg/Kg				Batch	ID: 19053	312
Matrix Spike/Matrix	Snika Dunli	ate Deco				٠.	amnia ID:	19-00679	3-0002	
Analyte	Result	MS Res	MSD Res	Spike	Dr	PD%	MS % Rec		Limits	Notes
Acephate	0.000	0.745	0.860	1.000	14.3	< 30	74.5	86.0	50 - 150	Notes
Acequinocyl	0.000	8.480	8.850	4.000	4.3	< 30	212.0	221.3	50 - 150	Q1
Acetamiprid	0.000	0.374	0.417	0.400	10.9	< 30	93.5	104.3	50 - 150	- 41
Aldicarb	0.000	0.733	0.835	0.400	13.0	< 30	91.6	104.4	50 - 150	1
Abamectin	0.000	1.220	1.290	1.000	5.6	< 30	122.0	129.0	50 - 150	-
Azoxystrobin	0.012	0.420	0.451	0.400	7.1	< 30	102.0	109.8	50 - 150	-
Bifenazate	0.000	0.388	0.404	0.400	4.0	< 30	97.0	101.0	50 - 150	-
Bifenthrin	0.000	1.490	1.460	0.400	2.0	< 30	372.5	365.0	50 - 150	Q1
Boscalid	0.081	0.886	0.897	0.800	1.2	< 30	100.6	102.0	50 - 150	- 41
Carbaryl	0.000	0.395	0.432	0.400	8.9	< 30	98.8	108.0	50 - 150	-
Carbofuran	0.000	0.385	0.423	0.400	94	< 30	96.3	105.8	50 - 150	-
Chlorantraniliprol	0.000	0.356	0.343	0.400	3.7	< 30	89.0	85.8	50 - 150	<del>                                     </del>
Chlorfenapyr	0.000	3.010	3.220	2.000	6.7	< 30	150.5	161.0	50 - 150	Q1
Chlorpyrifos	0.000	0.519	0.539	0.400	3.8	< 30	129.8	134.8	50 - 150	- 41
Clofentezine	0.000	0.448	0.491	0.400	9.2	< 30	112.0	122.8	50 - 150	-
Cyfluthrin	0.000	3.760	3.800	2.000	1.1	< 30	188.0	190.0	30 - 150	Q1
Cypermethrin	0.000	2.720	2.920	2.000	7.1	< 30	136.0	146.0	50 - 150	41
Daminozide	0.000	1.840	2.070	2.000	11.8	< 30	92.0	103.5	30 - 150	-
Diazinon	0.000	0.407	0.456	0.400	11.6	< 30	101.8	114.0	50 - 150	-
Diazinon	0.000	1.880	2.120	2.000	12.0	< 30	94.0	106.0	50 - 150	-
Dimethoat	0.000	0.377	0.415	0.400	9.6	< 30	94.0	103.8	50 - 150	-
Ethoprophos	0.000	0.407	0.413	0.400	6.2	< 30	101.8	103.8	50 - 150	-
Etofenprox	0.026	1.090	1.100	0.800	0.9	< 30	133.0	134.2	50 - 150	-
Etoxazol	0.000	0.472	0.502	0.400	6.2	< 30	118.0	125.5	50 - 150	-
Fenoxycarb	0.000	0.472	0.302	0.400	6.4	< 30	94.0	100.3	50 - 150	-
enoxycard	0.000	0.843	0.401	0.400	6.9	< 30	103.1	110.6	50 - 150	-
-enpyroximac -ipronil	0.000	0.843	0.903	0.800	4.2	< 30	105.1	109.6	50 - 150	-
Flonicamid	0.000	0.860	1.070	1.000	21.8	< 30	86.0	107.0	50 - 150	-
Fludioxonil	0.000	0.718	0.828	0.800	14.2	< 30	89.8	107.0	50 - 150	1
Hexythiazox	0.000	1.410	1.450	1.000	2.8	< 30	141.0	145.0	50 - 150	
Imazalil	0.000	0.385	0.418	0.400	8.2	< 30	96.3	104.5	50 - 150	-
midacloprid	0.000	0.383	0.418	0.800	12.4	< 30	91.4	104.5	50 - 150	<u> </u>
Kresoxim-Methyl	0.000	0.731	0.967	0.800	6.0	< 30	113.9	120.9	50 - 150	<u> </u>
Malathion	0.000	0.311	0.429	0.400	11.1	< 30	96.0	107.3	50 - 150	-
Metalaxyl	0.000	0.405	0.429	0.400	2.4	< 30	101.3	107.3	50 - 150	├
Methiocarb	0.008	0.403	0.415	0.400	7.7	< 30	101.0	109.3	50 - 150	
Methomyl	0.000	0.412	0.445	0.400	39.4	< 30	72.3	109.3	50 - 150	R
MGK 264	0.000	0.376	0.862	0.400	13.4	< 30	106.5	121.8	50 - 150	l R
Myclobutanil	0.000	0.426	0.467	0.400	2.9	< 30	101.0	104.0	50 - 150	-
Naled	0.000	1.020	1.080	1.000	5.7	< 30	102.0	104.0	50 - 150	<u> </u>
Oxamyl	0.000	1.770	2.060	2.000	15.1	< 30	88.5	103.0	50 - 150	-
Paclobutrazol	0.000	0.861	0.909	0.800	5.4	< 30	107.6	113.6	50 - 150	-
Parathion Methyl	0.000	0.660	0.909	0.800	27.1	< 30	82.5	108.4	30 - 150	-
Permethrin	0.000	0.486	0.528	0.400	8.3	< 30	121.5	132.0	50 - 150	-
Phosmet	0.000	0.388	0.394	0.400	1.5	< 30	97.0	98.5	50 - 150	-
Piperonyl butoxide	0.031	2.670	2.890	2.000	7.9	< 30	132.0	143.0	50 - 150	-
Prallethrin	0.007	0.201	0.219	0.200	8.6	< 30	97.1	106.1	50 - 150	-
Propiconazole	0.007	0.839	0.219	0.800	4.3	< 30	104.9	109.5	50 - 150	l -
Propoxur	0.009	0.839	0.876	0.400	8.3	< 30	92.9	101.2	50 - 150	1
Pyrethrins	0.003	0.393	0.414	0.400	4.5	< 30	137.9	144.3	50 - 150	-
Pyridaben	0.001	0.593	0.411	0.400	3.9	< 30	174.8	181.8	50 - 150	Q1
pinosad	0.000	0.699	0.727	0.388	6.1	< 30	110.1	117.0	50 - 150	41
piromesifen	0.000	0.500	0.434	0.400	3.9	< 30	125.0	130.0	50 - 150	-
Spiromesiien Spirotetramat	0.000	0.343	0.359	0.400	4.6	< 30	85.8	89.8	50 - 150	-
pirotetramat piroxamine	0.000	0.343	0.359	0.400	7.9	< 30	99.4	107.5	50 - 150	-
ebuconazol	0.000	0.795	0.860	0.800	9.2	< 30	91.8	107.5	50 - 150	l
		0.768			8.3	< 30	91.8		50 - 150	-
Thiacloprid	0.000	0.392	0.426	0.400	14.5	< 30	98.0	106.5	50 - 150	-
Thiamethoxam	0.000	0.365		0.400			109.6	105.5	50 - 150	
Trifloxystrobin	0.023	0.461	0.512	0.400	7.5	< 30	109.6	122.4	50 - 150	1





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#### **Laboratory Quality Control Results**

J AOAC 2015	5 V98-6				Bate	ch ID:	190	5386		
Laboratory C	ontrol Sample									
Analyte	Result	Spi	ke U	nits	% Rec	L	imit	s	Evaluation	Notes
CBDV-A	0.196	0.	2	%	98.0	85	-	115	Acceptable	
CBDV	0.206	0.	2	%	103	85	-	115	Acceptable	
CBD-A	0.199	0.	2	%	99.5	85	-	115	Acceptable	
CBG-A	0.192	0.	2	%	96.0	85	-	115	Acceptable	
CBG	0.207	0.	2	%	104	85	-	115	Acceptable	
CBD	0.212	0.	2	%	106	85	-	115	Acceptable	
THCV	0.196	0.	2	%	98.0	85	-	115	Acceptable	
THCVA	0.191	0.	2	%	95.5	85	-	115	Acceptable	
CBN	0.199	0.	2	%	99.5	85	-	115	Acceptable	
THC	0.193	0.	2	%	96.5	85	-	115	Acceptable	
D8THC	0.190	0.	2	%	95.0	85	-	115	Acceptable	
CBL	0.188	0.	2	%	94.0	85	-	115	Acceptable	
CBC	0.204	0.	2	%	102	85	-	115	Acceptable	
THCA	0.196	0.	2	%	98.0	85	-	115	Acceptable	
CBCA	0.186	0.	2	%	93.0	85	-	115	Acceptable	

#### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.1	%	< 0.1	Acceptable	
CBDV	ND	0.1	%	< 0.1	Acceptable	
CBD-A	ND	0.1	%	< 0.1	Acceptable	
CBG-A	ND	0.1	%	< 0.1	Acceptable	
CBG	ND	0.1	%	< 0.1	Acceptable	
CBD	ND	0.1	%	< 0.1	Acceptable	
THCV	ND	0.1	%	< 0.1	Acceptable	
THCVA	ND	0.1	%	< 0.1	Acceptable	
CBN	ND	0.1	%	< 0.1	Acceptable	
THC	ND	0.1	%	< 0.1	Acceptable	
D8THC	ND	0.1	%	< 0.1	Acceptable	
CBL	ND	0.1	%	< 0.1	Acceptable	
CBC	ND	0.1	%	< 0.1	Acceptable	
THCA	ND	0.1	%	< 0.1	Acceptable	
CBCA	ND	0.1	%	< 0.1	Acceptable	

#### Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

## Units of Measure:

% - Percent





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

J AOAC 2015	V98-6				Bat	ch ID: 190538	6	
Sample Dupli	cate				Sam	ple ID: <b>19-0067</b>	85-0005	
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBDV	0.583	0.59	0.1	%	1.19	< 20	Acceptable	
CBD-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBG	0.769	0.777	0.1	%	1.03	< 20	Acceptable	
CBD	36.2	36.8	0.1	%	1.64	< 20	Acceptable	
THCV	ND	ND	0.1	%	0	< 20	Acceptable	
THCVA	ND	ND	0.1	%	0	< 20	Acceptable	
CBN	ND	0.0961	0.1	%	3.98	< 20	Acceptable	
THC	1.43	1.45	0.1	%	1.39	< 20	Acceptable	
D8THC	ND	ND	0.1	%	0	< 20	Acceptable	
CBL	0.204	0.194	0.1	%	5.03	< 20	Acceptable	
CBC	ND	ND	0.1	%	0	< 20	Acceptable	
THCA	ND	ND	0.1	%	0	< 20	Acceptable	
CBCA	ND	ND	0.1	%	0	< 20	Acceptable	

#### Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

#### Units of Measure:

% - Percent





 Job Number:
 19-006793

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 06/20/2019

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# This report cannot be used for ODA, OHA or OLCC compliance requirements.

#### Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

# **Certificate of Quality Assurance**

PRODUCT NAME: Natural Tincture
PRODUCT STRENGTH: 1000 mg
LOT NUMBER: TNAT1000-T120
OIL BATCH NUMBER: CONO19-68
DATE OF MANUFACTURE: 6/6/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/6/2019

**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil **INACTIVE INGREDIENTS:** Grapeseed Oil, Hempseed Oil

# Physical Attributes of Raw Hemp Oil

Attribute	Acceptance Criteria	Result
Appearance	Viscous Dark Amber Oil Possible Crystal Formation	Conforms
Aroma	Characteristic Hemp Aroma	Conforms
Dissolution	Not Cloudy or Turbid, Characteristic Color	Conforms
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <2000 cfu/g	Conforms

### Cannabinoid Potency of Raw Hemp Oil

Cannabinoid	Weight %
CBD	83.35
CBG	<0.03
CBN	<0.03
ТНС	ND
CBC	<0.03
THC-A	ND
CBD-A	<0.03

# Pesticides\*

Compound	Result	Compound	Result
Acequinocil	ND	Spinosad	ND
Pyrethrium	ND	Spirotetramat	ND
Spiromesifin	ND	Bifenazate	ND
Abamectin	ND	Fenoxycarb	ND
Imidacloprid	ND	Paclobutrazol	ND

# beam

# Terpene Results\*

Compound	Weight %	Compound	Weight %
β-Bisabolene	1.0-3.0	Camphene	0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ-3-Carene	< 0.1

### Residual Solvents\*

Solvent	Weight %
Acetone	Compliant with USP<467>
Butane	Compliant with USP<467>
Ethanol	Compliant with USP<467>
Hexane	Compliant with USP<467>
Isobutane	Compliant with USP<467>
Isopropanol	Compliant with USP<467>
Pentane	Compliant with USP<467>

# **Certificate of Quality Assurance**

PRODUCT NAME: Natural Tincture
PRODUCT STRENGTH: 1000 mg
LOT NUMBER: TNAT1000-T120
OIL BATCH NUMBER: CONO19-68
DATE OF MANUFACTURE: 6/6/2019

Expiration date is 18 months under sealed conditions.

DATE OF ANALYSIS: 6/6/2019

**ACTIVE INGREDIENT:** Phytocannabinoid-Rich Hemp Oil **INACTIVE INGREDIENTS:** Grapeseed Oil, Hempseed Oil

Heavy Metals\*

Metal	Result
Cadmium	Compliant with USP<233>
Lead	Compliant with USP<233>
Arsenic	Compliant with USP<233>
Mercury	Compliant with USP<233>

**Analysis Results for Finished Product** 

Attribute	Acceptance Criteria	Result	
Appearance	Light Yellow to Green Liquid	Conforms	
Aroma	Characteristic Hemp Odor	Conforms	
Cannabidiol Content	95% to 110% of Label Claim	Conforms	
THC Content	None Detected	Conforms	

\* Results based on testing of multiple batches of hemp oil raw material.

Certified by:

Matthew Plenert, Ph.D

Head Chemist and Quality Manager

Date





 Job Number:
 19-006793

 Report Number:
 19-006793-00

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 06/20/2019

 ORELAP#:
 OR100028

**Purchase Order:** 

**Received:** 06/13/19 07:23

Product identity:	INA I 1000- I 12	Ü		Client/l	Metrc ID:	
Laboratory ID:	19-006793-000	5		Sample	Date:	
			Su	mmary		
Potency:						
Analyte per 30ml	Result	Limits	Units	LOQ	CBD-Total per 30ml	1110 mg/30ml
CBD per 30ml	1110		mg/30ml	27.7	=========	
					THC-Total per 30ml	< 52.076 mg/30ml
Pesticides:						
All analytes passing a	and less than LOQ.					
Metals:						
Less than LOQ for all	analytes.					
Microbiology:						
Less than LOQ for all	analytes.					





Job Number: 19-006793

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Report Date: 06/20/2019

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**Purchase Order:** 

**Received:** 06/13/19 07:23

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Customer: Beam Organics

Product identity: TNAT1000-T120

Client/Metrc ID: .

Sample Date:

Laboratory ID: 19-006793-0005
Relinquished by: Received By Mail

**Temp:** 22.9 °C **Serving Size #1:** 27.7 g

# **Sample Results**

Potency per 30ml		Batch: 1905	386			
Analyte	Result	Limits Units	LOQ	Analyze	Method	Notes
CBC per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBC-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBC-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6	
CBD per 30ml	1110	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBD-A per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBD-Total per 30ml	1110	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6	
CBDV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBDV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBDV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.8	06/18/19	J AOAC 2015 V98-6	
CBG per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBG-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBG-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6	
CBL per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
CBN per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
∆8-THC per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
∆9-THC per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
THC-A per 30ml	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
THC-Total per 30ml	< LOQ	mg/30ml	52.1	06/18/19	J AOAC 2015 V98-6	
THCV per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
THCV-A per 30ml <sup>†</sup>	< LOQ	mg/30ml	27.7	06/18/19	J AOAC 2015 V98-6	
THCV-Total per 30ml <sup>†</sup>	< LOQ	mg/30ml	51.8	06/18/19	J AOAC 2015 V98-6	





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Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1905266	06/16/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	Χ
Yeast	< LOQ		cfu/g	10	1905265	06/16/19	AOAC 2014.05 (RAPID)	X

Pesticides	Method	AOAC	2007.01 & EN	15662 (mod)	Units mg/kg Batc	<b>h</b> 1905312	Analy	<b>ze</b> 06/15/19 12:57 PM
Analyte	Result		LOQ Status	, ,	Analyte	Result		LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass		Acephate	< LOQ	0.40	0.250 pass
Acequinocyl	< LOQ	2.0	1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ	0.40	0.200 pass		Azoxystrobin	< LOQ	0.20	0.100 pass
Bifenazate	< LOQ	0.20	0.100 pass		Bifenthrin	< LOQ	0.20	0.100 pass
Boscalid	< LOQ	0.40	0.100 pass		Carbaryl	< LOQ	0.20	0.100 pass
Carbofuran	< LOQ	0.20	0.100 pass		Chlorantraniliprole	< LOQ	0.20	0.100 pass
Chlorfenapyr	< LOQ	1.0	0.500 pass		Chlorpyrifos	< LOQ	0.20	0.100 pass
Clofentezine	< LOQ	0.20	0.100 pass		Cyfluthrin (incl.	< LOQ	1.0	0.500 pass
Cypermethrin	< LOQ	1.0	0.500 pass		Daminozide	< LOQ	1.0	0.500 pass
Diazinon	< LOQ	0.20	0.100 pass		Dichlorvos	< LOQ	1.0	0.500 pass
Dimethoate	< LOQ	0.20	0.100 pass		Ethoprophos	< LOQ	0.20	0.100 pass
Etofenprox	< LOQ	0.40	0.200 pass		Etoxazole	< LOQ	0.20	0.100 pass
Fenoxycarb	< LOQ	0.20	0.100 pass		Fenpyroximate	< LOQ	0.40	0.200 pass
Fipronil	< LOQ	0.40	0.200 pass		Flonicamid	< LOQ	1.0	0.400 pass
Fludioxonil	< LOQ	0.40	0.200 pass		Hexythiazox	< LOQ	1.0	0.400 pass
lmazalil	< LOQ	0.20	0.100 pass		Imidacloprid	< LOQ	0.40	0.200 pass
Kresoxim-methyl	< LOQ	0.40	0.200 pass		Malathion	< LOQ	0.20	0.100 pass
Metalaxyl	< LOQ	0.20	0.100 pass		Methiocarb	< LOQ	0.20	0.100 pass
Methomyl	< LOQ	0.40	0.200 pass		MGK-264	< LOQ	0.20	0.100 pass
Myclobutanil	< LOQ	0.20	0.100 pass		Naled	< LOQ	0.50	0.250 pass
Oxamyl	< LOQ	1.0	0.500 pass		Paclobutrazole	< LOQ	0.40	0.200 pass
Parathion-Methyl	< LOQ	0.20	0.200 pass		Permethrin	< LOQ	0.20	0.100 pass
Phosmet	< LOQ	0.20	0.100 pass		Piperonyl butoxide	< LOQ	2.0	1.00 pass
Prallethrin	< LOQ	0.20	0.100 pass		Propiconazole	< LOQ	0.40	0.200 pass
Propoxur	< LOQ	0.20	0.100 pass		Pyrethrin I (total)	< LOQ	1.0	0.500 pass
Pyridaben	< LOQ	0.20	0.100 pass		Spinosad	< LOQ	0.20	0.100 pass
Spiromesifen	< LOQ	0.20	0.100 pass		Spirotetramat	< LOQ	0.20	0.100 pass
Spiroxamine	< LOQ	0.40	0.200 pass		Tebuconazole	< LOQ	0.40	0.200 pass
Thiacloprid	< LOQ	0.20	0.100 pass		Thiamethoxam	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass					





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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Cadmium	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Lead	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ
Mercury	< LOQ		mg/kg	0.100	1905340	06/14/19	AOAC 2013.06	Χ





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**Purchase Order:** 

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**Received:** 06/13/19 07:23

OR100028

## This report cannot be used for ODA, OHA or OLCC compliance requirements.

#### **Abbreviations**

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

## Units of Measure

cfu/g = Colony forming units per gram g = Gram mg/kg = Milligram per kilogram = parts per million (ppm) mg/27.7g = Milligram per 27.7g % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

## Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager





Job Number:

19-006793

Report Number:

19-006793-00 06/20/2019

Report Date: ORELAP#:

Received:

OR100028

**Purchase Order:** 

06/13/19 07:23

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Company: BEAM									A	Analy	sis Re	ques	ted	1		UU	10	OKELAP	P ID: OR100028
Contact: <b>n/a</b>				ş						П				1	Heavy	Metal	ls I	00.1	Purchase Order Number:
Address: n/a				spunodwoo		- 83									ppm	wicta	13 L	.OQ .1	Project Number: Project Name:
<sub>mail:</sub> n/a				dwo										١.,					Project Name:
Phone: <b>n/a</b> Processor's License:	Fax:		- OR 59 compounds	Pesticide Multi-Residue – 379 c		lvents	ıity			Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	ıls			Please to Darc accoun	ie Mo	end	reports 's	☐ Report Instructions: ☐ Send to State - METRC ☑ Email Final Results: ☐ Fax Final Results ☐ Cash/Check/CC/Net 30 Other:
Field ID	Date, Colle	/Time	Pesticides	Pesticide N	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeas	Micro: E.Co	Heavy Metals	Mycotoxins	Other	Matrix	Weig	ht	Serving size for edibles	Comments/Metrc ID
M500-T116			x		x					x	х	K			Oil			30ml	0.9213
NAT500-T117			x		х					x	X	<			Oil		-		0.9211
M1000-T118			x		x					x	X	(			Oil		$\overline{}$		0.9233
M1500-T119			х		X	Ų.				X	×	(			Oil		_		0.9239
NAT1000-T120			x		x					x	x	(			Oil		_		0.9235
NAT1500-T121	_		x		x					x	×	(			Oil		_		0.9262
										4									
ollected By:	Relinqu	iished E	By:			Date		Time		Receiv	ved by:				Date		Tim		
Standard (5 day)	David	Boaz	:		6	/12		PM		6	2	_				0		CI	Use Only: nt Alias:
Rush (3-4 day) (1.5x Standard)	71	8	2		1	6/12									D6/1	90	01	Prop	er Number:
Priority Rush (2 day) (2x Standard)																		Lemi	ple Condition perature: ped Via:

www.pixislabs.com

www.columbiafoodlab.com

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Effective 03/06/2019 Revised 03/06/2019



ColumbiaFood

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



Columbia Food/Pixis Labs

Job Number: 1
Report Number: 1

19-006793 19-006793-00

Report Date:

06/20/2019 OR100028

ORELAP#:

Revision: 1.00 Document Control: CF015

Purchase Order: Received:

06/13/19 07:23

	Number: 1010 6 101 3 Search Name:
ac	kage/Cooler opened on (if different than received date/time) Dates Time: 07:23
lec.	reived By (Initials):
)	Were custody seals on outside of the package/cooler?  If YES, how many and where?  NO  NA
	Were signature and date correct?
)	Were custody papers included in the package/cooler?
)	Were custody papers properly filled out (ink, sign, date)?
)	Did you sign custody papers in the appropriate place?
)	How was the package/cooler delivered?
	UPS FEDEX USPS CLIENT COURIER OTHER:  Tracking Number (written in or copy of shipping label): 4777 12854 0747
	Was packing material used? YES NO NA
(	Peanuts Bubble Wrap Foam Paper Other:
	Was sufficient ice used (if appropriate)? What kind?  YES NO NA
	Blue Ice Ice Cooler Packs Dry Ice
	Were all sample containers sealed in separate plastic bags?  YES  NO  NA
]	Did all sample containers arrive in good condition?
)	Were all sample container labels complete?
) ]	Did all sample container labels and tags agree with the coc?  YES NO NA
) '	Were correct sample containers used for the tests indicated?
) 1	Were VOA vials checked for absence of air bubbles (note if found)?
) 1	Was a sufficient amount of sample sent in each sample container?
) ]	Temperature of the samples upon receipt (See SOP for proper temps)
S	ample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other:





 Job Number:
 19-006793

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 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

## **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN	15662	Unit	s: mg/Kg			Batch ID: 1905312					
Method Blank				Laboratory Cor	ntrol Samp	ole					
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes			
Acephate	ND	< 0.200		1.150	1.000	115.0	70 - 130				
Acequinocyl	ND	< 1.000		4.040	4.000	101.0	70 - 130				
Acetamiprid	ND	< 0.100		0.413	0.400	103.3	70 - 130				
Aldicarb	ND	< 0.200		0.808	0.800	101.0	70 - 130				
Abamectin	ND	< 0.288		0.926	1.000	92.6	70 - 130				
Azoxystrobin	ND	< 0.100		0.395	0.400	98.8	70 - 130				
Bifenazate	ND	< 0.100		0.395	0.400	98.8	70 - 130				
Bifenthrin	ND	< 0.100		0.386	0.400	96.5	70 - 130				
Boscalid	ND	< 0.100		0.801	0.800	100.1	70 - 130	l			
Carbaryl	ND	< 0.100	1	0.401	0.400	100.3	70 - 130				
Carbofuran	ND	< 0.100		0.403	0.400	100.8	70 - 130				
Chlorantraniliprol	ND	< 0.100		0.357	0.400	89.3	70 - 130				
Chlorfenapyr	ND	< 1.000		1.730	2.000	86.5	70 - 130				
Chlorpyrifos	ND	< 0.100		0.383	0.400	95.8	70 - 130				
Clofentezine	ND	< 0.100	1	0.399	0.400	99.8	70 - 130	1			
Cyfluthrin	ND	< 1.000		1.800	2.000	90.0	30 - 150				
Cypermethrin	ND	< 1.000		2.050	2.000	102.5	70 - 130	1			
Daminozide	ND	< 1.000		2.140	2.000	107.0	30 - 150				
Diazinon	ND	< 0.100		0.403	0.400	100.8	70 - 130	l			
Dichlorvos	ND	< 0.500	1	1.920	2.000	96.0	70 - 130				
Dimethoat	ND	< 0.100	1	0.404	0.400	101.0	70 - 130				
Ethoprophos	ND	< 0.100	1	0.408	0.400	102.0	70 - 130				
Etofenprox	ND	< 0.100	+	0.789	0.800	98.6	70 - 130	<del>                                     </del>			
Etoxazol	ND	< 0.100	1	0.393	0.400	98.3	70 - 130				
enoxycarb	ND	< 0.100	1	0.387	0.400	96.8	70 - 130	l -			
enpyroximat	ND	< 0.100	+	0.783	0.800	97.9	70 - 130	_			
ipronil	ND	< 0.100	1	0.763	0.800	95.4	70 - 130	<del>                                     </del>			
lonicamid	ND	< 0.400	1	1.030	1.000	103.0	70 - 130	<del>                                     </del>			
ludioxonil	ND ND	< 0.100	+	0.739	0.800	92.4	70 - 130	_			
Hexythiazox	ND ND	< 0.400	+	1.010	1.000	101.0	70 - 130	-			
mazalil	ND ND	< 0.100	-	0.421	0.400	105.3	70 - 130	<u> </u>			
midacloprid	ND ND	< 0.200	+	0.784	0.800	98.0	70 - 130	-			
Kresoxim-Methyl	ND ND	< 0.100	-	0.819	0.800	102.4	70 - 130	-			
Malathion	ND ND	< 0.100		0.390	0.400	97.5	70 - 130	_			
Metalaxyl	ND ND	< 0.100	+	0.388	0.400	97.0	70 - 130	<u> </u>			
Methiocarb	ND ND	< 0.100	+	0.398	0.400	99.5	70 - 130	<del>                                     </del>			
Methomyl	ND ND	< 0.200	+	0.860	0.800	107.5	70 - 130	-			
MGK 264	ND ND	< 0.100	+	0.400	0.400	100.0	70 - 130	-			
Myclobutanil	ND ND	< 0.100	-	0.394	0.400	98.5	70 - 130	<u> </u>			
Naled	ND ND	< 0.200	-	0.962	1.000	96.2	70 - 130	-			
Oxamyl	ND ND	< 0.400	-	2.020	2.000	101.0	70 - 130	<u> </u>			
Paclobutrazol	ND ND	< 0.200	1	0.797	0.800	99.6	70 - 130	-			
Parathion Methyl	ND ND	< 0.200	+	0.758	0.800	94.8	30 - 150	-			
Permethrin	ND ND	< 0.100	+	0.400	0.400	100.0	70 - 130	-			
Phosmet	ND ND	< 0.100	+	0.400	0.400	100.0	70 - 130	-			
Piperonyl butoxide	ND ND	< 1.000	-	1.910	2.000	95.5	70 - 130	-			
Prallethrin	ND I	< 0.200	+	0.203	0.200	101.5	70 - 130				
rranetnrin Propiconazole	ND ND	< 0.200	-	0.805	0.200	100.6	70 - 130	_			
ropiconazoie Propoxur	ND ND	< 0.100	-	0.402	0.400	100.6	70 - 130	-			
Pyrethrins	ND ND	< 0.100	_	0.302	0.400	106.3	70 - 130	-			
	ND ND		-	0.302	0.284	106.3 136.8	70 - 130	Q1			
Pyridaben	117	< 0.100	-			(7)7.0000		Į Q1			
pinosad	ND ND	< 0.100		0.423	0.388	109.0	70 - 130				
piromesifen	ND ND	< 0.100		0.364	0.400	91.0	70 - 130				
pirotetramat	ND	< 0.100		0.392	0.400	98.0	70 - 130				
piroxamine	ND	< 0.100		0.859	0.800	107.4	70 - 130				
ebuconazol	ND	< 0.200		0.756	0.800	94.5	70 - 130				
hiacloprid	ND	< 0.100		0.414	0.400	103.5	70 - 130				
Thiamethoxam	ND	< 0.100		0.418	0.400	104.5	70 - 130				
Frifloxystrobin	ND	< 0.100	i	0.389	0.400	97.3	70 - 130				





Job Number: 19-006793

Report Number: 19-006793-00

Report Date: 06/20/2019

**Purchase Order:** 

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OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

## **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 1	15662		Units:	mg/Kg				Batch	ID: 19053	12
Matrix Spike/Matrix	Spike Duplic	ate Reco	veries			S	ample ID:	19-00679	3-0002	
Analyte	Result	MS Res	MSD Res	Spike	RP	D%	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.745	0.860	1.000	14.3	< 30	74.5	86.0	50 - 150	
Acequinocyl	0.000	8.480	8.850	4.000	4.3	< 30	212.0	221.3	50 - 150	Q1
Acetamiprid	0.000	0.374	0.417	0.400	10.9	< 30	93.5	104.3	50 - 150	
Aldicarb	0.000	0.733	0.835	0.800	13.0	< 30	91.6	104.4	50 - 150	
Abamectin	0.000	1.220	1.290	1.000	5.6	< 30	122.0	129.0	50 - 150	
Azoxystrobin	0.012	0.420	0.451	0.400	7.1	< 30	102.0	109.8	50 - 150	
Bifenazate	0.000	0.388	0.404	0.400	4.0	< 30	97.0	101.0	50 - 150	
Bifenthrin	0.000	1.490	1.460	0.400	2.0	< 30	372.5	365.0	50 - 150	Q1
Boscalid	0.081	0.886	0.897	0.800	1.2	< 30	100.6	102.0	50 - 150	
Carbaryl	0.000	0.395	0.432	0.400	8.9	< 30	98.8	108.0	50 - 150	
Carbofuran	0.000	0.385	0.423	0.400	9.4	< 30	96.3	105.8	50 - 150	
Chlorantraniliprol	0.000	0.356	0.343	0.400	3.7	< 30	89.0	85.8	50 - 150	
Chlorfenapyr	0.000	3.010	3.220	2.000	6.7	< 30	150.5	161.0	50 - 150	Q1
Chlorpyrifos	0.000	0.519	0.539	0.400	3.8	< 30	129.8	134.8	50 - 150	
Clofentezine	0.000	0.448	0.491	0.400	9.2	< 30	112.0	122.8	50 - 150	
Cyfluthrin	0.000	3.760	3.800	2.000	1.1	< 30	188.0	190.0	30 - 150	Q1
Cypermethrin	0.000	2.720	2.920	2.000	7.1	< 30	136.0	146.0	50 - 150	
Daminozide	0.000	1.840	2.070	2.000	11.8	< 30	92.0	103.5	30 - 150	
Diazinon	0.000	0.407	0.456	0.400	11.4	< 30	101.8	114.0	50 - 150	
Dichlorvos	0.000	1.880	2.120	2.000	12.0	< 30	94.0	106.0	50 - 150	
Dimethoat	0.000	0.377	0.415	0.400	9.6	< 30	94.3	103.8	50 - 150	
Ethoprophos	0.000	0.407	0.433	0.400	6.2	< 30	101.8	108.3	50 - 150	
Etofenprox	0.026	1.090	1.100	0.800	0.9	< 30	133.0	134.2	50 - 150	
Etoxazol	0.000	0.472	0.502	0.400	6.2	< 30	118.0	125.5	50 - 150	
enoxycarb	0.000	0.376	0.401	0.400	6.4	< 30	94.0	100.3	50 - 150	
enpyroximat	0.018	0.843	0.903	0.800	6.9	< 30	103.1	110.6	50 - 150	
ipronil	0.000	0.841	0.877	0.800	4.2	< 30	105.1	109.6	50 - 150	
lonicamid	0.000	0.860	1.070	1.000	21.8	< 30	86.0	107.0	50 - 150	
·ludioxonil	0.000	0.718	0.828	0.800	14.2	< 30	89.8	103.5	50 - 150	
Hexythiazox	0.000	1.410	1.450	1.000	2.8	< 30	141.0	145.0	50 - 150	
mazalil	0.000	0.385	0.418	0.400	8.2	< 30	96.3	104.5	50 - 150	
Imidacloprid	0.000	0.731	0.828	0.800	12.4	< 30	91.4	103.5	50 - 150	
Kresoxim-Methyl	0.000	0.911	0.967	0.800	6.0	< 30	113.9	120.9	50 - 150	
Malathion	0.000	0.384	0.429	0.400	11.1	< 30	96.0	107.3	50 - 150	
Metalaxyl	0.000	0.405	0.415	0.400	2.4	< 30	101.3	103.8	50 - 150	
Methiocarb	0.008	0.412	0.445	0.400	7.7	< 30	101.0	109.3	50 - 150	
Methomyl	0.000	0.578	0.862	0.800	39.4	< 30	72.3	107.8	50 - 150	R
MGK 264	0.000	0.426	0.487	0.400	13.4	< 30	106.5	121.8	50 - 150	
Myclobutanil	0.000	0.404	0.416	0.400	2.9	< 30	101.0	104.0	50 - 150	
Naled	0.000	1.020	1.080	1.000	5.7	< 30	102.0	108.0	50 - 150	
Oxamyl	0.000	1.770	2.060	2.000	15.1	< 30	88.5	103.0	50 - 150	
Paclobutrazol	0.000	0.861	0.909	0.800	5.4	< 30	107.6	113.6	50 - 150	
Parathion Methyl	0.000	0.660	0.867	0.800	27.1	< 30	82.5	108.4	30 - 150	
Permethrin	0.000	0.486	0.528	0.400	8.3	< 30	121.5	132.0	50 - 150	
Phosmet	0.000	0.388	0.394	0.400	1.5	< 30	97.0	98.5	50 - 150	
Piperonyl butoxide	0.031	2.670	2.890	2.000	7.9	< 30	132.0	143.0	50 - 150	
Prallethrin	0.007	0.201	0.219	0.200	8.6	< 30	97.1	106.1	50 - 150	
Propiconazole	0.000	0.839	0.876	0.800	4.3	< 30	104.9	109.5	50 - 150	
ropoxur	0.009	0.381	0.414	0.400	8.3	< 30	92.9	101.2	50 - 150	
yrethrins	0.001	0.393	0.411	0.284	4.5	< 30	137.9	144.3	50 - 150	
Pyridaben	0.000	0.699	0.727	0.400	3.9	< 30	174.8	181.8	50 - 150	Q1
pinosad	0.000	0.427	0.454	0.388	6.1	< 30	110.1	117.0	50 - 150	
piromesifen	0.000	0.500	0.520	0.400	3.9	< 30	125.0	130.0	50 - 150	
Spirotetramat	0.000	0.343	0.359	0.400	4.6	< 30	85.8	89.8	50 - 150	
Spiroxamine	0.000	0.795	0.860	0.800	7.9	< 30	99.4	107.5	50 - 150	l
Tebuconazol	0.034	0.768	0.842	0.800	9.2	< 30	91.8	101.0	50 - 150	
Thiacloprid	0.000	0.392	0.426	0.400	8.3	< 30	98.0	106.5	50 - 150	
Thiamethoxam	0.000	0.365	0.422	0.400	14.5	< 30	91.3	105.5	50 - 150	
Frifloxystrobin	0.023	0.461	0.512	0.400	7.5	< 30	109.6	122.4	50 - 150	





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

**Received:** 06/13/19 07:23

OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

## **Laboratory Quality Control Results**

J AOAC 2015	5 V98-6									
Laboratory C	ontrol Sample									
Analyte	Result	Spi	ke U	nits	% Rec	L	imit	s	Evaluation	Notes
CBDV-A	0.196	0.	2	%	98.0	85	-	115	Acceptable	
CBDV	0.206	0.	2	%	103	85	-	115	Acceptable	
CBD-A	0.199	0.	2	%	99.5	85	-	115	Acceptable	
CBG-A	0.192	0.	2	%	96.0	85	-	115	Acceptable	
CBG	0.207	0.	2	%	104	85	-	115	Acceptable	
CBD	0.212	0.	2	%	106	85	-	115	Acceptable	
THCV	0.196	0.	2	%	98.0	85	-	115	Acceptable	
THCVA	0.191	0.	2	%	95.5	85	-	115	Acceptable	
CBN	0.199	0.	2	%	99.5	85	-	115	Acceptable	
THC	0.193	0.	2	%	96.5	85	-	115	Acceptable	
D8THC	0.190	0.	2	%	95.0	85	-	115	Acceptable	
CBL	0.188	0.	2	%	94.0	85	-	115	Acceptable	
CBC	0.204	0.	2	%	102	85	-	115	Acceptable	
THCA	0.196	0.	2	%	98.0	85	-	115	Acceptable	
CBCA	0.186	0.	2	%	93.0	85	-	115	Acceptable	

#### Method Blank

Wicking Diam	•					
Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.1	%	< 0.1	Acceptable	
CBDV	ND	0.1	%	< 0.1	Acceptable	
CBD-A	ND	0.1	%	< 0.1	Acceptable	
CBG-A	ND	0.1	%	< 0.1	Acceptable	
CBG	ND	0.1	%	< 0.1	Acceptable	
CBD	ND	0.1	%	< 0.1	Acceptable	
THCV	ND	0.1	%	< 0.1	Acceptable	
THCVA	ND	0.1	%	< 0.1	Acceptable	
CBN	ND	0.1	%	< 0.1	Acceptable	
THC	ND	0.1	%	< 0.1	Acceptable	
D8THC	ND	0.1	%	< 0.1	Acceptable	
CBL	ND	0.1	%	< 0.1	Acceptable	
CBC	ND	0.1	%	< 0.1	Acceptable	
THCA	ND	0.1	%	< 0.1	Acceptable	
CBCA	ND	0.1	%	< 0.1	Acceptable	

#### Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

## Units of Measure:

% - Percent





 Job Number:
 19-006793

 Report Number:
 19-006793-00

 Report Date:
 06/20/2019

**Purchase Order:** 

ORELAP#:

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OR100028

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J AOAC 2015	V98-6				Bat	ch ID: 190538	6	
Sample Dupli	cate				Sam	ple ID: <b>19-0067</b>	785-0005	
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDV-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBDV	0.583	0.59	0.1	%	1.19	< 20	Acceptable	
CBD-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBG-A	ND	ND	0.1	%	0	< 20	Acceptable	
CBG	0.769	0.777	0.1	%	1.03	< 20	Acceptable	
CBD	36.2	36.8	0.1	%	1.64	< 20	Acceptable	
THCV	ND	ND	0.1	%	0	< 20	Acceptable	
THCVA	ND	ND	0.1	%	0	< 20	Acceptable	
CBN	ND	0.0961	0.1	%	3.98	< 20	Acceptable	
THC	1.43	1.45	0.1	%	1.39	< 20	Acceptable	
D8THC	ND	ND	0.1	%	0	< 20	Acceptable	
CBL	0.204	0.194	0.1	%	5.03	< 20	Acceptable	
CBC	ND	ND	0.1	%	0	< 20	Acceptable	
THCA	ND	ND	0.1	%	0	< 20	Acceptable	•
CBCA	ND	ND	0.1	%	0	< 20	Acceptable	•

#### **Abbreviations**

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

#### Units of Measure:

% - Percent





 Job Number:
 19-006793

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OR100028

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## Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.

# **Certificate of Quality Assurance**

PRODUCT NAME: 1oz Salve
PRODUCT STRENGTH: 500 mg
LOT NUMBER: B1OZ500-T180
OIL BATCH NUMBER: CONO19-34
DATE OF MANUFACTURE: 4/3/2019

Expiration date is 18 months under sealed conditions.

**DATE OF ANALYSIS:** 4/3/2019 and 7/26/2019

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: MCT, Beeswax, Lavender Essential Oil, Eucalyptus Essential Oil



# **Physical Attributes of Raw Hemp Oil**

Attribute	Acceptance Criteria	Result
Appearance	Viscous Dark Amber Oil Possible Crystal Formation	Conforms
Aroma	Characteristic Hemp Aroma	Conforms
Dissolution	Not Cloudy or Turbid, Characteristic Color	Conforms
Microbial Testing	Total Aerobic Count <2000 cfu/g Total Yeast and Mold <2000 cfu/g	Conforms

# Cannabinoid Potency of Raw Hemp Oil

Cannabinoid	Weight %				
CBD	87.83				
CBG	<0.03				
CBN	<0.03				
THC	ND				
СВС	<0.03				
THC-A	ND				
CBD-A	0.33				

## Pesticides\*

Compound	Result	Compound	Result
Acequinocil	ND	Spinosad	ND
Pyrethrium	ND	Spirotetramat	ND
Spiromesifin	ND	Bifenazate	ND
Abamectin	ND	Fenoxycarb	ND
Imidacloprid	midacloprid ND		ND

# **Terpene Results\***

Compound	Weight %	Compound	Weight %
β-Bisabolene	1.0-3.0	Camphene	0.1-0.2
β-Farnesene	1.0-2.0	E-Farnesene	0.1-0.2
Gualol	0.5-2.0	Farnesol	0.1-0.2
β-Maaliene	0.5-2.0	α-Bisabolol	< 0.1
Calarene	0.5-1.5	p-Cymene	< 0.1
β-Caryophyllene	0.1-1.0	Linalool	< 0.1
α-Humulene	0.1-1.0	Myrcene	< 0.1
Cadinene	0.1-1.0	Phytol	< 0.1
α-Gurjunene	0.1-0.5	Isopulegol	< 0.1
d-Limonene	0.1-0.5	Terpinene	< 0.1
Nerolidol	0.1-0.5	Geraniol	< 0.1
α-Pinene	0.1-0.5	Myrcene	< 0.1
Aristolene	0.1-0.3	γ-Terpinene	< 0.1
Eucalyptol	0.1-0.2	δ-3-Carene	< 0.1

## **Residual Solvents\***

Weight %
Compliant with USP<467>
Compliant with USP<467>
Compliant with USP<467>
Compliant with USP<467>
Compliant with USP<467>
Compliant with USP<467>
Compliant with USP<467>

# **Certificate of Quality Assurance**

PRODUCT NAME: 1oz Salve
PRODUCT STRENGTH: 500 mg
LOT NUMBER: B1OZ500-T180
OIL BATCH NUMBER: CONO19-34
DATE OF MANUFACTURE: 4/3/2019

Expiration date is 18 months under sealed conditions.

**DATE OF ANALYSIS:** 4/3/2019 and 7/26/2019

ACTIVE INGREDIENT: Phytocannabinoid-Rich Hemp Oil

INACTIVE INGREDIENTS: MCT, Beeswax, Lavender Essential Oil, Eucalyptus Essential Oil

Heavy Metals\*

Metal	Result					
Cadmium	Compliant with USP<233>					
Lead	Compliant with USP<233>					
Arsenic	Compliant with USP<233>					
Mercury	Compliant with USP<233>					

**Analysis Results for Finished Product** 

Attribute	Acceptance Criteria	Result Conforms Conforms					
Appearance	White to Light Yellow Solid at Room Temperature						
Aroma	Characteristic Lavender and Eucalyptus Aroma						
Cannabidiol Content	95 to 110% of Label Claim	Conforms					
THC Content	None Detected	Conforms					

<sup>\*</sup> Results based on testing of multiple batches of hemp oil raw material.

Quality Certified by:

Matthew Plenert, Ph.D

Head Chemist and Laboratory Manager

Date

QC Unit released by:

David Boaz

Data

QC Manager





Job Number: 19-009087

Report Number: 19-009087-00

Report Date: 08/07/2019

ORELAP#: OR100028

**Purchase Order:** 

**Received:** 07/31/19 09:45

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Product identity:B1OZ500-T180Client/Metrc ID:.Laboratory ID:19-009087-0001Sample Date:

Summary

Potency:

Analyte per 28.35g	Result	Limits	Units	LOQ	CBD-Total per 28.35g	451 mg/28.35g
CBD per 28.35g CBDV per 28.35g <sup>†</sup>	451 4.08		mg/28.35g mg/28.35g		THC-Total per 28.35g	< 1.775 mg/28.3
					(Reported in milligrams	s per serving)

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.





Job Number: 19-009087

Report Number: 19-009087-00

Report Date: 08/07/2019

ORELAP#: OR100028

**Purchase Order:** 

**Received:** 07/31/19 09:45

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Customer: Beam Organics

Product identity: B1OZ500-T180

Client/Metrc ID: .

Sample Date:

Laboratory ID: 19-009087-0001
Relinquished by: Received By Mail

**Temp:** 22.6 °C **Serving Size #1:** 28.35 g

# **Sample Results**

Potency per 28.35g Batch: 1906977									
Analyte	Result	Limits	Units	LOQ	Analyze	Method	Notes		
CBC per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
CBC-A per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
CBC-Total per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	1.77	08/06/19	J AOAC 2015 V98-6			
CBD per 28.35g	451		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
CBD-A per 28.35g	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
CBD-Total per 28.35g	451		mg/28.35g	1.77	08/06/19	J AOAC 2015 V98-6			
CBDV per 28.35g <sup>†</sup>	4.08		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
CBDV-A per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
CBDV-Total per 28.35g <sup>†</sup>	4.08		mg/28.35g	1.76	08/06/19	J AOAC 2015 V98-6			
CBG per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
CBG-A per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
CBG-Total per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	1.77	08/06/19	J AOAC 2015 V98-6			
CBL per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
CBN per 28.35g	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
$\Delta 8$ -THC per 28.35g $^{\dagger}$	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
Δ9-THC per 28.35g	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
THC-A per 28.35g	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
THC-Total per 28.35g	< LOQ		mg/28.35g	1.77	08/06/19	J AOAC 2015 V98-6			
THCV per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
THCV-A per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	0.945	08/06/19	J AOAC 2015 V98-6			
THCV-Total per 28.35g <sup>†</sup>	< LOQ		mg/28.35g	1.76	08/06/19	J AOAC 2015 V98-6			





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 08/07/2019

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Microbiology								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	1906870	08/03/19	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	1906870	08/03/19	AOAC 991.14 (Petrifilm)	X
Mold	< LOQ		cfu/g	10	1906866	08/03/19	AOAC 2014.05 (RAPID)	X
Yeast	< LOQ		cfu/g	10	1906866	08/03/19	AOAC 2014.05 (RAPID)	Х

Pesticides	Method	AOAC	2007.01 & EN	l 15662 (mod)	Units mg/kg Batch	n 1906942	Analy	<b>ze</b> 08/02/19 08:28 AM
Analyte	Result		LOQ Status	` '	Analyte	Result		LOQ Status Notes
Abamectin	< LOQ	0.50	0.250 pass		Acephate	< LOQ	0.40	0.250 pass
Acequinocyl	< LOQ	2.0	1.00 pass		Acetamiprid	< LOQ	0.20	0.100 pass
Aldicarb	< LOQ	0.40	0.200 pass		Azoxystrobin	< LOQ	0.20	0.100 pass
Bifenazate	< LOQ	0.20	0.100 pass		Bifenthrin	< LOQ	0.20	0.100 pass
Boscalid	< LOQ	0.40	0.100 pass		Carbaryl	< LOQ	0.20	0.100 pass
Carbofuran	< LOQ	0.20	0.100 pass		Chlorantraniliprole	< LOQ	0.20	0.100 pass
Chlorfenapyr	< LOQ	1.0	0.500 pass		Chlorpyrifos	< LOQ	0.20	0.100 pass
Clofentezine	< LOQ	0.20	0.100 pass		Cyfluthrin (incl.	< LOQ	1.0	0.500 pass
Cypermethrin	< LOQ	1.0	0.500 pass		Daminozide	< LOQ	1.0	0.500 pass
Diazinon	< LOQ	0.20	0.100 pass		Dichlorvos	< LOQ	1.0	0.500 pass
Dimethoate	< LOQ	0.20	0.100 pass		Ethoprophos	< LOQ	0.20	0.100 pass
Etofenprox	< LOQ	0.40	0.200 pass		Etoxazole	< LOQ	0.20	0.100 pass
Fenoxycarb	< LOQ	0.20	0.100 pass		Fenpyroximate	< LOQ	0.40	0.200 pass
Fipronil	< LOQ	0.40	0.200 pass		Flonicamid	< LOQ	1.0	0.400 pass
Fludioxonil	< LOQ	0.40	0.200 pass		Hexythiazox	< LOQ	1.0	0.400 pass
Imazalil	< LOQ	0.20	0.100 pass		Imidacloprid	< LOQ	0.40	0.200 pass
Kresoxim-methyl	< LOQ	0.40	0.200 pass		Malathion	< LOQ	0.20	0.100 pass
Metalaxyl	< LOQ	0.20	0.100 pass		Methiocarb	< LOQ	0.20	0.100 pass
Methomyl	< LOQ	0.40	0.200 pass		MGK-264	< LOQ	0.20	0.100 pass
Myclobutanil	< LOQ	0.20	0.100 pass		Naled	< LOQ	0.50	0.250 pass
Oxamyl	< LOQ	1.0	0.500 pass		Paclobutrazole	< LOQ	0.40	0.200 pass
Parathion-Methyl	< LOQ	0.20	0.200 pass		Permethrin	< LOQ	0.20	0.100 pass
Phosmet	< LOQ	0.20	0.100 pass		Piperonyl butoxide	< LOQ	2.0	1.00 pass
Prallethrin	< LOQ	0.20	0.100 pass		Propiconazole	< LOQ	0.40	0.200 pass
Propoxur	< LOQ	0.20	0.100 pass		Pyrethrin I (total)	< LOQ	1.0	0.500 pass
Pyridaben	< LOQ	0.20	0.100 pass		Spinosad	< LOQ	0.20	0.100 pass
Spiromesifen	< LOQ	0.20	0.100 pass		Spirotetramat	< LOQ	0.20	0.100 pass
Spiroxamine	< LOQ	0.40	0.200 pass		Tebuconazole	< LOQ	0.40	0.200 pass
Thiacloprid	< LOQ	0.20	0.100 pass		Thiamethoxam	< LOQ	0.20	0.100 pass
Trifloxystrobin	< LOQ	0.20	0.100 pass					





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 08/07/2019

**Purchase Order:** 

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Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Arsenic	< LOQ		mg/kg	0.0478	1907037	08/05/19	AOAC 2013.06 (mod.)	X
Cadmium	< LOQ		mg/kg	0.0478	1907037	08/05/19	AOAC 2013.06 (mod.)	Χ
Lead	< LOQ		mg/kg	0.0478	1907037	08/05/19	AOAC 2013.06 (mod.)	Χ
Mercury	< LOQ		mg/kg	0.0239	1907037	08/05/19	AOAC 2013.06 (mod.)	X





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 08/07/2019

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**Received:** 07/31/19 09:45

OR100028

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#### **Abbreviations**

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220

**Limit(s) of Quantitation (LOQ):** The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not NELAP accredited.

## Units of Measure

cfu/g = Colony forming units per gram g = Gram mg/kg = Milligram per kilogram = parts per million (ppm) mg/28.35g = Milligram per 28.35g % = Percentage of sample % wt =  $\mu$ g/g divided by 10,000

## Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner General Manager





Job Number: 19-009087

**Report Number:** 19-009087-00

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**Purchase Order:** 

ORELAP#:

Received: 07/31/19 09:45

OR100028

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Company: Beam Org	anics									Analy	ysis F	Reque	sted	_	101	Nolve	ORELA	PIXIS Lab AP ID: OR100028				
Contact:				S		-		T	$\top$	T	T	1	1	_	Ι.			Purchase Order Number:				
Address:						2SS:		379 compounds						1					Heavy 0.1ppr	Metals	LOQ	Project Number:
Email:				duc						l li					o. ippi	n		Project Name:				
Phone:	Fax:		nds	79 CC						P	E				Please	report i	n					
Processor's License:			cessor's		NR 59 compo ti-Residue –		λ;		nd Mold	Micro: E. Coli and Total Coliform				mg/serving size Please Bill Darcie Moran's Account		e cie	☐ Report Instructions: ☐ Send to State - METRC ☑ Email Final Results: ☐ Fax Final Results ☐ Cash/Check/CC/Net 30					
Field ID	Date/ Colle	/Time	Pesticides –	Pesticide Multi-Residue	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Aicro: E.Coli	Heavy Metals	Mycotoxins	Other			Serving size	Other:				
1OZ500-T180			x	×			$\neg$		-				2		Matrix	Weight	for edibles	Comments/Metrc ID				
				$\neg$		$\neg$	-	$\dashv$	-	X	Х	X	-		Salve			Density ~ 0.94				
_								$\neg$		1			-									
	+									7			-									
	+	$\dashv$	_										+					46				
	+	$\rightarrow$		$\perp$						1	$\dashv$		$\dashv$	$\dashv$	-							
	$\perp$		$\bot$	$\bot$							$\neg$		$\dashv$	$\dashv$								
llected By:	Relinquis	shed By	/:		1	Date																
Standard (5 day)	David E	Boaz			-	30	_	Time	-	Receive					Date	Tim	e Lab	Use Only:				
Rush (3-4 day) (1.5x Standard)		- Juli				30	3	om	-	-/1	mi	)			7-31	-19 9:	Clien Orde	nt Alias: er Number: er Container				
Priority Rush (2 day) 2x Standard)					+		+		+	33	_						Samp	ple Condition perature:				

Revision: 1.03 Control#: CF023 Effective 03/06/2019 Revised 03/06/2019 ES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

www.pixislabs.com www.columbiafoodlab.com

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Job Number: 19

19-009087 19-009087-00

Report Number: Report Date:

08/07/2019

ORELAP#:

OR100028

**Purchase Order:** 

**Received:** 07/31/19 09:45

Columbia Food LABORATORIES EATENTAMES Company	Columbia Food/Pixis Labs Sample Receipt Form	Revision: 1.00 Document Control: CF015 Revised: 04/25/2019 Effective: 05/11/2019
Job Number: 1970908	Search Name:	
Package/Cooler opened on (if different than rece	ived date/time) Date: $47-31-19$ Time:	9:45
Received By (Initials):		
Were custody seals on outside of the package If YES, how many and where?	ge/cooler? YES	NO (NA)
Were signature and date correct?	YES	NO NA
2) Were custody papers included in the package	e/cooler? YES	NO NA
3) Were custody papers properly filled out (ink	sign, date)?	NO NA
4) Did you sign custody papers in the appropria	te place?	NO NA
5) How was the package/cooler delivered?		
UPS FEDEX USPS	CLIENT COURIER OTHER	
Tracking Number (written in or copy of shi	pping label): 17 88F 0	86 15 4148 4526
6) Was packing material used?	YES	NO NA
Peanuts Bubble Wrap Foam Paper	Other:	
7) Was sufficient ice used (if appropriate)? What kind?	YES	NO NA
Blue Ice Ice Cooler Packs	Dry Ice	
8) Were all sample containers sealed in separate	plastic bags? YES	NO NA
9) Did all sample containers arrive in good cond	lition? YES	NO NA
10) Were all sample container labels complete?	YES	NO NA
11) Did all sample container labels and tags agree	e with the coc?	NO NA
12) Were correct sample containers used for the t	ests indicated? YES	NO NA
13) Were VOA vials checked for absence of air b	ubbles (note if found)? YES	NO NA
14) Was a sufficient amount of sample sent in each	ch sample container?	NO NA
15) Temperature of the samples upon receipt (Sec	e SOP for proper temps) 22	Loc
16) Sample location prior to login: R25 R39	R44 F44 Ambient Shelf Cannabi	s Table Other:
Explain any discrepancies:		
Page Z of Z		





 Job Number:
 19-009087

 Report Number:
 19-009087-00

 Report Date:
 08/07/2019

ORELAP#: OR100028

**Purchase Order:** 

**Received:** 07/31/19 09:45

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

## **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN	15662	Units:	mg/Kg			Batch	ID: 19069	942
Method Blank				Laboratory Cor	ntrol Samp	ole		
Analyte	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acephate	ND I	< 0.200	110100	0.970	1.000	97.0	70 - 130	1
Acequinocyl	ND	< 1.000		3.680	4.000	92.0	70 - 130	
Acetamiprid	ND	< 0.100		0.412	0.400	103.0	70 - 130	
Aldicarb	ND	< 0.200		0.822	0.800	102.8	70 - 130	1
Abamectin	ND	< 0.288		0.849	1.000	84.9	70 - 130	
Azoxystrobin	ND	< 0.100		0.397	0.400	99.3	70 - 130	
Bifenazate	ND I	< 0.100		0.401	0.400	100.3	70 - 130	
Bifenthrin	ND	< 0.100		0.387	0.400	96.8	70 - 130	
Boscalid	ND	< 0.100		0.916	0.800	114.5	70 - 130	l –
Carbaryl	ND	< 0.100		0.400	0.400	100.0	70 - 130	
Carbofuran	ND	< 0.100		0.410	0.400	102.5	70 - 130	
Chlorantraniliprol	ND I	< 0.100		0.399	0.400	99.8	70 - 130	1
Chlorfenapyr	ND	< 1.000		2.030	2.000	101.5	70 - 130	
Chlorpyrifos	ND I	< 0.100		0.397	0.400	99.3	70 - 130	
Clofentezine	ND ND	< 0.100		0.233	0.400	58.3	70 - 130	Q6
Cyfluthrin	ND	< 1.000		2.020	2.000	101.0	30 - 150	
Cypermethrin	ND	< 1.000		2.000	2.000	100.0	70 - 130	
Daminozide	ND	< 1.000		0.761	2.000	38.1	30 - 150	
Diazinon	ND	< 0.100		0.370	0.400	92.5	70 - 130	
Dichlorvos	ND ND	< 0.500		1.960	2.000	98.0	70 - 130	1
Dimethoat	ND	< 0.100		0.395	0.400	98.8	70 - 130	
Ethoprophos	ND	< 0.100		0.394	0.400	98.5	70 - 130	
Etofenprox	ND	< 0.100		0.806	0.800	100.8	70 - 130	1
Etoxazol	ND	< 0.100		0.526	0.400	131.5	70 - 130	Q1
Fenoxycarb	ND	< 0.100		0.385	0.400	96.3	70 - 130	
Fenpyroximat	ND	< 0.100		0.788	0.800	98.5	70 - 130	
Fipronil	ND	< 0.100		0.789	0.800	98.6	70 - 130	
Flonicamid	ND	< 0.400		0.974	1.000	97.4	70 - 130	
Fludioxonil	ND	< 0.100		0.827	0.800	103.4	70 - 130	
Hexythiazox	ND	< 0.400		0.968	1.000	96.8	70 - 130	
Imazalil	ND	< 0.100		0.403	0.400	100.8	70 - 130	
Imidacloprid	ND	< 0.200		0.799	0.800	99.9	70 - 130	
Kresoxim-Methyl	ND	< 0.100		0.758	0.800	94.8	70 - 130	
Malathion	ND	< 0.100		0.395	0.400	98.8	70 - 130	
Metalaxyl	ND	< 0.100		0.381	0.400	95.3	70 - 130	
Methiocarb	ND	< 0.100		0.389	0.400	97.3	70 - 130	
Methomyl	ND	< 0.200		0.770	0.800	96.3	70 - 130	
MGK 264	ND	< 0.100		0.394	0.400	98.5	70 - 130	
Myclobutanil	ND	< 0.100		0.399	0.400	99.8	70 - 130	
Naled	ND	< 0.200		0.933	1.000	93.3	70 - 130	
Oxamyl	ND	< 0.400		1.900	2.000	95.0	70 - 130	
Paclobutrazol	ND	< 0.200		0.821	0.800	102.6	70 - 130	1
Parathion Methyl	ND	< 0.200		0.685	0.800	85.6	30 - 150	
Permethrin	ND	< 0.100		0.368	0.400	92.0	70 - 130	
Phosmet	ND	< 0.100		0.412	0.400	103.0	70 - 130	
Piperonyl butoxide	ND	< 1.000		1.960	2.000	98.0	70 - 130	
Prallethrin	ND	< 0.200		0.803	0.800	100.4	70 - 130	
Propiconazole	ND	< 0.200		0.786	0.800	98.3	70 - 130	
Propoxur	ND	< 0.100	l	0.393	0.400	98.3	70 - 130	l
Pyrethrins	ND	< 0.500		0.308	0.284	108.5	70 - 130	
Pyridaben	ND	< 0.100		0.411	0.400	102.8	70 - 130	
Spinosad	ND	< 0.100		0.412	0.388	106.2	70 - 130	
Spiromesifen	ND	< 0.100		0.384	0.400	96.0	70 - 130	
Spirotetramat	ND	< 0.100		0.356	0.400	89.0	70 - 130	
Spiroxamine	ND	< 0.100		0.778	0.800	97.3	70 - 130	
Tebuconazol	ND	< 0.200		0.740	0.800	92.5	70 - 130	
Thiacloprid	ND	< 0.100		0.394	0.400	98.5	70 - 130	1
Thiamethoxam	ND	< 0.100		0.379	0.400	94.8	70 - 130	
Trifloxystrobin	ND.	< 0.100		0.400	0.400	100.0	70 - 130	1





 Job Number:
 19-009087

 Report Number:
 19-009087-00

 Report Date:
 08/07/2019

**Purchase Order:** 

ORELAP#:

**Received:** 07/31/19 09:45

OR100028

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Revision: 0.01 Control: CFL-C22 Revised: 12/4/2018 Effective: 12/4/2018

# **Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 1	5662		Units:	mg/Kg				Batch	ID: 19069	42
Matrix Spike/Matrix	Spike Duplic	ate Reco	veries			S	ample ID:	19-00903	0-0002	
Analyte	Result	MS Res	MSD Res	Spike	RF	PD%		MSD % Rec		Notes
Acephate	0.000	0.969	0.970	1.000	0.1	< 30	96.9	97.0	50 - 150	I
Acequinocyl	0.000	3.790	3.490	4.000	8.2	< 30	94.8	87.3	50 - 150	
Acetamiprid	0.000	0.396	0.381	0.400	3.9	< 30	99.0	95.3	50 - 150	
Aldicarb	0.000	0.772	0.724	0.800	6.4	< 30	96.5	90.5	50 - 150	
Abamectin	0.000	0.956	0.939	1.000	1.8	< 30	95.6	93.9	50 - 150	
Azoxystrobin	0.000	0.372	0.337	0.400	9.9	< 30	93.0	84.3	50 - 150	
Bifenazate	0.000	0.394	0.393	0.400	0.3	< 30	98.5	98.3	50 - 150	
Bifenthrin	0.010	0.402	0.387	0.400	3.8	< 30	97.9	94.2	50 - 150	
Boscalid	0.000	0.902	0.857	0.800	5.1	< 30	112.8	107.1	50 - 150	
Carbaryl	0.004	0.433	0.419	0.400	3.3	< 30	107.2	103.7	50 - 150	
Carbofuran	0.000	0.444	0.422	0.400	5.1	< 30	111.0	105.5	50 - 150	
Chlorantraniliprol	0.000	0.423	0.388	0.400	8.6	< 30	105.8	97.0	50 - 150	ĺ
Chlorfenapyr	0.000	1.710	1.670	2.000	2.4	< 30	85.5	83.5	50 - 150	
Chlorpyrifos	0.000	0.428	0.397	0.400	7.5	< 30	107.0	99.3	50 - 150	
Clofentezine	0.000	0.284	0.257	0.400	10.0	< 30	71.0	64.3	50 - 150	
Cyfluthrin	0.000	2.070	1.660	2.000	22.0	< 30	103.5	83.0	30 - 150	
Cypermethrin	0.000	1.850	1.780	2.000	3.9	< 30	92.5	89.0	50 - 150	
Daminozide	0.000	0.863	0.801	2.000	7.5	< 30	43.2	40.1	30 - 150	
Diazinon	0.000	0.383	0.340	0.400	11.9	< 30	95.8	85.0	50 - 150	
Dichlorvos	0.000	2.200	2.000	2.000	9.5	< 30	110.0	100.0	50 - 150	
Dimethoat	0.000	0.394	0.380	0.400	3.6	< 30	98.5	95.0	50 - 150	
Ethoprophos	0.000	0.402	0.381	0.400	5.4	< 30	100.5	95.3	50 - 150	l
Etofenprox	0.000	0.747	0.698	0.800	6.8	< 30	93.4	87.3	50 - 150	
Etoxazol	0.000	0.433	0.407	0.400	6.2	< 30	108.3	101.8	50 - 150	
Fenoxycarb	0.000	0.375	0.352	0.400	6.3	< 30	93.8	0.88	50 - 150	
Fenpyroximat	0.000	0.742	0.686	0.800	7.8	< 30	92.8	85.8	50 - 150	
Fipronil	0.054	0.682	0.616	0.800	10.2	< 30	78.6	70.3	50 - 150	
Flonicamid	0.000	0.979	0.914	1.000	6.9	< 30	97.9	91.4	50 - 150	
Fludioxonil	0.000	0.827	0.718	0.800	14.1	< 30	103.4	89.8	50 - 150	
Hexythiazox	0.000	1.230	1.170	1.000	5.0	< 30	123.0	117.0	50 - 150	
Imazalil	0.000	0.417	0.407	0.400	2.4	< 30	104.3	101.8	50 - 150	
Imidacloprid	0.000	0.728	0.705	0.800	3.2	< 30	91.0	88.1	50 - 150	
Kresoxim-Methyl	0.000	0.774	0.766	0.800	1.0	< 30	96.8	95.8	50 - 150	
Malathion	0.000	0.429	0.399	0.400	7.2	< 30	107.3	99.8	50 - 150	
Metalaxyl	0.000	0.381	0.367	0.400	3.7	< 30	95.3	91.8	50 - 150	
Methiocarb	0.000	0.374	0.361	0.400	3.5	< 30	93.5	90.3	50 - 150	
Methomyl	0.000	0.744	0.680	0.800	9.0	< 30	93.0	85.0	50 - 150	
MGK 264	0.000	0.389	0.363	0.400	6.9	< 30	97.3	90.8	50 - 150	
Myclobutanil	0.000	0.403	0.372	0.400	8.0	< 30	100.8	93.0	50 - 150	Ī
Naled	0.000	0.967	0.873	1.000	10.2	< 30	96.7	87.3	50 - 150	
Oxamyl	0.000	1.840	1.790	2.000	2.8	< 30	92.0	89.5	50 - 150	
Paclobutrazol	0.000	0.808	0.772	0.800	4.6	< 30	101.0	96.5	50 - 150	
Parathion Methyl	0.043	1.000	0.788	0.800	23.7	< 30	119.6	93.1	30 - 150	
Permethrin	0.001	0.358	0.340	0.400	5.2	< 30	89.3	84.8	50 - 150	
Phosmet	0.000	0.445	0.405	0.400	9.4	< 30	111.3	101.3	50 - 150	
Piperonyl butoxide	0.000	1.910	1.800	2.000	5.9	< 30	95.5	90.0	50 - 150	
Prallethrin	0.000	0.986	0.945	0.800	4.2	< 30	123.3	118.1	50 - 150	
Propiconazole	0.000	0.807	0.762	0.800	5.7	< 30	100.9	95.3	50 - 150	
Propoxur	0.007	0.440	0.395	0.400	10.8	< 30	108.3	97.0	50 - 150	
Pyrethrins	0.000	0.276	0.251	0.284	9.5	< 30	97.2	88.4	50 - 150	
Pyridaben	0.000	0.359	0.332	0.400	7.8	< 30	89.8	83.0	50 - 150	
Spinosad	0.000	0.417	0.401	0.388	3.9	< 30	107.5	103.4	50 - 150	
Spiromesifen	0.000	0.777	0.732	0.400	6.0	< 30	194.3	183.0	50 - 150	Q1
Spirotetramat	0.000	0.340	0.314	0.400	8.0	< 30	84.9	78.4	50 - 150	
Spiroxamine	0.000	0.774	0.749	0.800	3.3	< 30	96.8	93.6	50 - 150	
Tebuconazol	0.006	0.808	0.717	0.800	11.9	< 30	100.2	88.9	50 - 150	
Thiacloprid	0.000	0.369	0.350	0.400	5.3	< 30	92.3	87.5	50 - 150	
Thiamethoxam	0.000	0.382	0.337	0.400	12.5	< 30	95.5	84.3	50 - 150	
Trifloxystrobin	0.000	0.360	0.344	0.400	3.0	< 30	90.0	86.0	50 - 150	





 Job Number:
 19-009087

 Report Number:
 19-009087-00

 Report Date:
 08/07/2019

OR100028

**Purchase Order:** 

ORELAP#:

**Received:** 07/31/19 09:45

This report cannot be used for ODA, OHA or OLCC compliance requirements.

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 1906977								
Laboratory Cor	ntrol Sample							
Analyte	Result		Spike	Units	% Rec	Limits	Evaluation	Notes
CBDV-A	0.00985		0.01	%	98.5	85 - 115	Acceptable	
CBDV	0.0103		0.01	%	103	85 - 115	Acceptable	
CBD-A	0.00974		0.01	%	97.4	85 - 115	Acceptable	
CBG-A	0.00971		0.01	%	97.1	85 - 115	Acceptable	
CBG	0.0106		0.01	%	106	85 - 115	Acceptable	
CBD	0.0109		0.01	%	109	85 - 115	Acceptable	
THCV	0.0101		0.01	%	101	85 - 115	Acceptable	
THCVA	0.00965		0.01	%	96.5	85 - 115	Acceptable	
CBN	0.0110		0.01	%	110	85 - 115	Acceptable	
THC	0.0107		0.01	%	107	85 - 115	Acceptable	
D8THC	0.00984		0.01	%	98.4	85 - 115	Acceptable	
CBL	0.00953		0.01	%	95.3	85 - 115	Acceptable	
CBC	0.0104		0.01	%	104	85 - 115	Acceptable	
THCA	0.0104		0.01	%	104	85 - 115	Acceptable	
CBCA	0.00927		0.01	%	92.7	85 - 115	Acceptable	

#### Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDV-A	ND	0.003	%	< 0.003	Acceptable	
CBDV	ND	0.003	%	< 0.003	Acceptable	
CBD-A	ND	0.003	%	< 0.003	Acceptable	
CBG-A	ND	0.003	%	< 0.003	Acceptable	
CBG	ND	0.003	%	< 0.003	Acceptable	
CBD	ND	0.003	%	< 0.003	Acceptable	
THCV	ND	0.003	%	< 0.003	Acceptable	
THCVA	ND	0.003	%	< 0.003	Acceptable	
CBN	ND	0.003	%	< 0.003	Acceptable	
THC	ND	0.003	%	< 0.003	Acceptable	
D8THC	ND	0.003	%	< 0.003	Acceptable	
CBL	ND	0.003	%	< 0.003	Acceptable	
CBC	ND	0.003	%	< 0.003	Acceptable	
THCA	ND	0.003	%	< 0.003	Acceptable	
CBCA	ND	0.003	%	< 0.003	Acceptable	

#### Abbreviations

ND - None Detected at or above MRL

RPD -Relative Percent Difference

LOQ - Limit of Quantitation

Units of Measure:

%- Percent





 Job Number:
 19-009087

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 19-009087-00

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 08/07/2019

OR100028

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ORELAP#:

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JAOAC2015 V986 Batch ID: 1906977											
Sample Duplicat	te			Sample ID: 19-009082-0001							
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes			
CBDV-A	ND	ND	0.003	%	0	< 20	Acceptable				
CBDV	ND	ND	0.003	%	0	< 20	Acceptable				
CBD-A	ND	ND	0.003	%	0	< 20	Acceptable				
CBG-A	ND	ND	0.003	%	0	< 20	Acceptable				
CBG	0.00544	0.00544	0.003	%	0	< 20	Acceptable				
CBD	ND	ND	0.003	%	0	< 20	Acceptable				
THCV	ND	ND	0.003	%	0	< 20	Acceptable				
THCVA	ND	ND	0.003	%	0	< 20	Acceptable				
CBN	ND	ND	0.003	%	0	< 20	Acceptable				
THC	0.187	0.187	0.003	%	0	< 20	Acceptable				
D8THC	ND	ND	0.003	%	0	< 20	Acceptable				
CBL	ND	ND	0.003	%	0	< 20	Acceptable				
CBC	0.00455	0.00456	0.003	%	0.220	< 20	Acceptable				
THCA	ND	ND	0.003	%	0	< 20	Acceptable				
CBCA	ND	ND	0.003	%	0	< 20	Acceptable				

#### Abbreviations

ND - None Detected at or above MRL RPD -Relative Percent Difference LOQ - Limit of Quantitation

## Units of Measure

%- Percent





 Job Number:
 19-009087

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## Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.