



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



Report Number: 22-008454/D003.R000
Report Date: 07/25/2022
ORELAP#: OR100028
Purchase Order: REV0TOP-MOC-7.12.
Received: 07/18/22 10:17

Customer: Revana Collective
Product identity: Renew(YETOP)7.12.22
Client/Metric ID: .
Laboratory ID: 22-008454-0001

Summary

Potency:

Analyte per 2oz.	Result	Limits	Units	Status	
CBD per 2oz.	1800		mg/2oz.		CBD-Total per Serving Size 1800 mg/2oz.
CBG per 2oz.	86.2		mg/2oz.		
					THC-Total per Serving Size <LOQ
					(Reported in milligrams per serving)

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Received: 07/18/22 10:17

Customer: Revana Collective
 92 Centennial
 Eugene Oregon 97401
 United States of America (USA)

Product identity: Renew(YETOP)7.12.22

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-008454-0001

Evidence of Cooling: No

Temp: 21.9 °C

Relinquished by: USPS

Serving Size #1: 56.699 g

Sample Results

Potency per 2oz.	Method: J AOAC 2015 V98-6 (mod)	Units mg/se	Batch: 2206122	Analyze: 7/20/22 3:11:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBD per 2oz.	1800		mg/2oz.	17.8	
CBD-A per 2oz.	< LOQ		mg/2oz.	1.78	
CBD-Total per 2oz.	1800		mg/2oz.	19.3	
CBG per 2oz.	86.2		mg/2oz.	1.78	
CBG-A per 2oz.	< LOQ		mg/2oz.	1.78	
CBG-Total per 2oz.	86.2		mg/2oz.	3.32	
CBN per 2oz.	< LOQ		mg/2oz.	1.78	
Δ8-THC per 2oz.	< LOQ		mg/2oz.	1.78	
Δ9-THC per 2oz.	< LOQ		mg/2oz.	1.78	
THC-A per 2oz.	< LOQ		mg/2oz.	1.78	
THC-Total per 2oz.	< LOQ		mg/2oz.	3.33	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2206061	07/21/22 AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2206059	07/21/22 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2206059	07/21/22 AOAC 991.14 (Petrifilm)		
Staphylococcus aureus	< LOQ		cfu/g	10	2206062	07/20/22 AOAC 2003.07		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2206060	07/22/22 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2206060	07/22/22 AOAC 2014.05 (RAPID)		
Salmonella spp. by PCR	Negative		/25g		2206063	07/20/22 AOAC 2020.02		



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Solvents											Method: Residual Solvents by GC/MS					Units µg/g		Batch 2206161		Analyze 07/21/22 12:46 PM				
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes							
1-Butanol	< LOQ	5000	500	pass		1-Pentanol	< LOQ	5000	500	pass		1-Pentanol	< LOQ	5000	500	pass								
1,1-Dichloroethane	< LOQ		1.00			1,2-Dichloroethane	< LOQ		1.00			1,2-Dichloroethane	< LOQ		1.00									
1,2-Dimethoxyethane	< LOQ		50.0			1,4-Dioxane [‡]	< LOQ	380	100	pass		1,4-Dioxane [‡]	< LOQ	380	100	pass								
2-Butanol [‡]	< LOQ	5000	200	pass		2-Ethoxyethanol [‡]	< LOQ	160	30.0	pass		2-Ethoxyethanol [‡]	< LOQ	160	30.0	pass								
2-methyl-1-propanol	< LOQ		500			2-Methylbutane (Isopentane)	< LOQ		200			2-Methylbutane (Isopentane)	< LOQ		200									
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA) [‡]	< LOQ	5000	200	pass		2-Propanol (IPA) [‡]	< LOQ	5000	200	pass								
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200			2,2-Dimethylpropane (neo-pentane)	< LOQ		200									
2,3-Dimethylbutane	< LOQ		30.0			3-Methyl-(1)-Butanol	< LOQ		500			3-Methyl-(1)-Butanol	< LOQ		500									
3-Methylpentane	< LOQ		30.0			Acetone [‡]	< LOQ	5000	200	pass		Acetone [‡]	< LOQ	5000	200	pass								
Acetonitrile [‡]	< LOQ	410	100	pass		Anisole	< LOQ		500			Anisole	< LOQ		500									
Benzene [‡]	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass		Butanes (sum)	< LOQ	5000	400	pass								
Butyl acetate	< LOQ		500			Chloroform	< LOQ		1.00			Chloroform	< LOQ		1.00									
Cyclohexane [‡]	< LOQ	3880	200	pass		DMSO	< LOQ	5000	500	pass		DMSO	< LOQ	5000	500	pass								
Ethanol [‡]	< LOQ		200			Ethyl acetate [‡]	< LOQ	5000	200	pass		Ethyl acetate [‡]	< LOQ	5000	200	pass								
Ethyl benzene	< LOQ		200			Ethyl ether [‡]	< LOQ	5000	200	pass		Ethyl ether [‡]	< LOQ	5000	200	pass								
Ethyl Formate	< LOQ		500			Ethylene glycol [‡]	< LOQ	620	200	pass		Ethylene glycol [‡]	< LOQ	620	200	pass								
Ethylene oxide	< LOQ	50.0	1.00	pass		Formic Acid	0.000		250			Formic Acid	0.000		250									
Hexanes (sum)	< LOQ	290	150	pass		Isobutyl acetate	< LOQ	5000	500	pass		Isobutyl acetate	< LOQ	5000	500	pass								
Isopropyl acetate [‡]	< LOQ	5000	200	pass		Isopropylbenzene (Cumene) [‡]	< LOQ	70.0	30.0	pass		Isopropylbenzene (Cumene) [‡]	< LOQ	70.0	30.0	pass								
m,p-Xylene	< LOQ		200			Methanol [‡]	< LOQ	3000	200	pass		Methanol [‡]	< LOQ	3000	200	pass								
Methyl-t-butyl ether	< LOQ		500			Methylacetat	< LOQ		500			Methylacetat	< LOQ		500									
Methylene chloride	< LOQ	600	1.00	pass		Methylethylketone	< LOQ		500			Methylethylketone	< LOQ		500									
Methylisobutylketone	< LOQ		500			Methylpropane (Isobutane)	< LOQ		200			Methylpropane (Isobutane)	< LOQ		200									
n-Butane [‡]	< LOQ		200			n-Heptane [‡]	< LOQ	5000	200	pass		n-Heptane [‡]	< LOQ	5000	200	pass								
n-Hexane [‡]	< LOQ		30.0			n-Pentane [‡]	< LOQ		200			n-Pentane [‡]	< LOQ		200									
n-Propanol	< LOQ		500			N,N-dimethylacetamide	< LOQ	1090	200	pass		N,N-dimethylacetamide	< LOQ	1090	200	pass								
N,N-dimethylformamide	< LOQ		200			o-Xylene	< LOQ		200			o-Xylene	< LOQ		200									
Pentanes (sum)	< LOQ	5000	600	pass		Propane [‡]	< LOQ	5000	200	pass		Propane [‡]	< LOQ	5000	200	pass								
Propyl Acetate	< LOQ		500			Pyridine	< LOQ	200	50.0	pass		Pyridine	< LOQ	200	50.0	pass								
Sulfolane	< LOQ	160	50.0	pass		Tetrahydrofuran [‡]	< LOQ	720	100	pass		Tetrahydrofuran [‡]	< LOQ	720	100	pass								
Toluene [‡]	< LOQ	890	100	pass		Total Residual Solvents	< LOQ		5,000			Total Residual Solvents	< LOQ		5,000									
Total Xylenes [‡]	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass		Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass								
Trichloroethylene	< LOQ		1.00			Triethylamine	< LOQ		500			Triethylamine	< LOQ		500									



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)					Units mg/kg		Batch 2206175		Analyze 07/21/22 03:24 PM		
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.070	pass		Acephate	< LOQ	0.40	0.020	pass	
Acequinocyl	< LOQ	2.0	0.025	pass		Acetamidrid	< LOQ	0.20	0.050	pass	
Aldicarb	< LOQ	0.40	0.100	pass		Allethrin	< LOQ		0.100		
Atrazine	< LOQ		0.025			Azadirachtin	< LOQ		0.500		
Azoxystrobin	< LOQ	0.20	0.010	pass		Benzovindiflupyr	< LOQ		0.010		
Bifenazate	< LOQ	0.20	0.010	pass		Bifenthrin	< LOQ	0.20	0.100	pass	
Boscalid	< LOQ	0.40	0.010	pass		Buprofezin	< LOQ		0.010		
Captan	< LOQ		0.700			Carbaryl	< LOQ	0.20	0.025	pass	
Carbofuran	< LOQ	0.20	0.010	pass		Chlorantraniliprole	< LOQ	0.20	0.010	pass	
Chlordane (cis+trans)	< LOQ		0.100			Chlorfenapyr	< LOQ	1.0	0.100	pass	
Chlorpyrifos	< LOQ	0.20	0.010	pass		Clofentezine	< LOQ	0.20	0.010	pass	
Clothianidin	< LOQ		0.025			Coumaphos	< LOQ		0.010		
Cyantraniliprole	< LOQ		0.010			Cyfluthrin	< LOQ	1.0	0.400	pass	
Cyhalothrin,lambda	< LOQ		0.250			Cypermethrin	< LOQ	1.0	0.300	pass	
Cyprodinil	< LOQ		0.010			Daminozide	< LOQ	1.0	0.050	pass	
Deltamethrin	< LOQ		0.500			Diazinon	< LOQ	0.20	0.010	pass	
Dichlorvos	< LOQ	1.0	0.050	pass		Dimethoate	< LOQ	0.20	0.010	pass	
Dimethomorph	< LOQ		0.050			Dinotefuran	< LOQ		0.050		
Diuron	< LOQ		0.125			Dodemorph	< LOQ		0.050		
Endosulfan I (alpha)	< LOQ		0.050			Endosulfan II (beta)	< LOQ		0.050		
Endosulfan sulfate	< LOQ		0.050			Ethoprophos	< LOQ	0.20	0.010	pass	
Etofenprox	< LOQ	0.40	0.010	pass		Etoxazole	< LOQ	0.20	0.010	pass	
Etridiazole	< LOQ		0.050			Fenhexamid	< LOQ		0.100		
Fenoxycarb	< LOQ	0.20	0.010	pass		Fenpyroximate	< LOQ	0.40	0.020	pass	
Fensulfothion	< LOQ		0.010			Fenthion	< LOQ		0.010		
Fenvalerate	< LOQ		0.200			Fipronil	< LOQ	0.40	0.010	pass	
Flonicamid	< LOQ	1.0	0.025	pass		Fludioxonil	< LOQ	0.40	0.010	pass	
Fluopyram	< LOQ		0.010			Hexythiazox	< LOQ	1.0	0.010	pass	
Imazalil	< LOQ	0.20	0.010	pass		Imidacloprid	< LOQ	0.40	0.010	pass	
Iprodione	< LOQ		0.500			Kinoprene	< LOQ		0.050		
Kresoxim-methyl	< LOQ	0.40	0.010	pass		Malathion	< LOQ	0.20	0.010	pass	
Metalaxyl	< LOQ	0.20	0.010	pass		Methiocarb	< LOQ	0.20	0.010	pass	
Methomyl	< LOQ	0.40	0.025	pass		Methoprene	< LOQ		1.00		
Mevinphos	< LOQ		0.025			MGK-264	< LOQ	0.20	0.050	pass	
Myclobutanil	< LOQ	0.20	0.010	pass		Naled	< LOQ	0.50	0.100	pass	
Novaluron	< LOQ		0.025			Oxamyl	< LOQ	1.0	0.500	pass	
Paclobutrazole	< LOQ	0.40	0.010	pass		Parathion-Methyl	< LOQ	0.20	0.030	pass	
Permethrin	< LOQ	0.20	0.040	pass		Phenothrin	< LOQ		0.025		
Phosmet	< LOQ	0.20	0.010	pass		Piperonyl butoxide	< LOQ	2.0	0.200	pass	
Pirimicarb	< LOQ		0.010			Prallethrin	< LOQ	0.20	0.050	pass	
Propiconazole	< LOQ	0.40	0.010	pass		Propoxur	< LOQ	0.20	0.010	pass	
Pyraclostrobin	< LOQ		0.010			Pyrethrins (total)	< LOQ		0.025		
Pyridaben	< LOQ	0.20	0.020	pass		Pyriproxyfen	< LOQ		0.010		
Quintozene	< LOQ		0.020			Resmethrin	< LOQ		0.020		
Spinetoram	< LOQ		0.010			Spinosad	< LOQ	0.20	0.010	pass	
Spirodiclofen	< LOQ	0.20	0.250	pass		Spiromesifen	< LOQ	0.20	0.030	pass	



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg	Batch 2206175	Analyze 07/21/22 03:24 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Spirotetramat	< LOQ	0.20	0.010	pass		Spiroxamine	< LOQ	0.40	0.010	pass	
Tebuconazole	< LOQ	0.40	0.010	pass		Tebufenozide	< LOQ		0.010		
Teflubenzuron	< LOQ		0.025			Tetrachlorvinphos	< LOQ		0.010		
Tetramethrin	< LOQ		0.050			Thiabendazole	< LOQ		0.020		
Thiacloprid	< LOQ	0.20	0.010	pass		Thiamethoxam	< LOQ	0.20	0.010	pass	
Thiophanate-Methyl	< LOQ		0.030			Trifloxystrobin	< LOQ	0.20	0.010	pass	

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Arsenic	< LOQ	0.200	mg/kg	0.0831	2206142	07/20/22	AOAC 2013.06 (mod.)	pass		
Cadmium	< LOQ	0.200	mg/kg	0.0831	2206142	07/20/22	AOAC 2013.06 (mod.)	pass		
Lead	< LOQ	0.500	mg/kg	0.0831	2206142	07/20/22	AOAC 2013.06 (mod.)	pass		
Mercury	< LOQ	0.100	mg/kg	0.0415	2206142	07/20/22	AOAC 2013.06 (mod.)	pass		

Mycotoxins										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Aflatoxin B2 [¶]	< LOQ		µg/kg	5.00	2206143	07/21/22	AOAC 2007.01 & EN 15662 (mod) ^P			
Aflatoxin B1 [¶]	< LOQ		µg/kg	5.00	2206143	07/21/22	AOAC 2007.01 & EN 15662 (mod) ^P			
Aflatoxin G1 [¶]	< LOQ		µg/kg	5.00	2206143	07/21/22	AOAC 2007.01 & EN 15662 (mod) ^P			
Aflatoxin G2 [¶]	< LOQ		µg/kg	5.00	2206143	07/21/22	AOAC 2007.01 & EN 15662 (mod) ^P			
Ochratoxin A [¶]	< LOQ	20.0	µg/kg	5.00	2206143	07/21/22	AOAC 2007.01 & EN 15662 (mod) ^P	pass		
Total Aflatoxins	0.000	20.0	µg/kg	20.0		07/22/22	AOAC 2007.01 & EN 15662 (mod)	pass		



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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

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.

Ⓟ = ISO/IEC 17025:2017 accredited method.

* = TNI accredited analyte.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/2oz. = Milligram per 2oz.

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager



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**Hemp / Cannabis Usable / Extract / Finished Products
 Chain of Custody Record**

Revision: 4.00 Control#: CF023 Rev 02/24/2022 Eff: 03/04/2021
 ORELAP ID: **OR100028**

Company: <u>Revana Collective</u> Contact: <u>Cassia Zeller</u> Street: <u>92 Centennial Loop</u> City: <u>Eugene</u> State: <u>OR</u> Zip: <u>97401</u> <input checked="" type="checkbox"/> Email Results: <u>cassia@revanacollective.com</u> Ph: <u>(503) 869-7259</u> <input type="checkbox"/> Fx Results: () Billing (if different): <u>32682 Bush Garden Dr Harrisburg OR.</u>				Analysis Requested <input type="checkbox"/> H0014-Potency-Cannabinoid Basic Profile <input type="checkbox"/> H0042-Mycotoxins-Cannabis <input type="checkbox"/> H0013-Metals by ICP/MS (as, Cd, Pb & Hg) <input type="checkbox"/> P2140-Pesticide-CanAm <input type="checkbox"/> H0024- Residual Solvents- CanAM <input type="checkbox"/> M5000-Micro Profile G							PO Number: <u>REV0TOP-MOC-7.12.22</u> Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * <i>*Ask for availability</i> Sampled by: _____		
Lab ID	Client Sample Identification	Date	Time	H0014-Potency-Cannabinoid Basic Profile	H0042-Mycotoxins-Cannabis	H0013-Metals by ICP/MS (as, Cd, Pb & Hg)	P2140-Pesticide-CanAm	H0024- Residual Solvents- CanAM	M5000-Micro Profile G	Sample Type †	Weight (Units)	Comments/Metric ID	
	Renew(YETOP)7.12.22	7/15/22	8:39 AM	✓	✓	✓	✓	✓	✓	T	2.02	H0005-COA Review-Vendor Vetting added. Need results to Market of Choice	
	Ren.EX+(YETOP)7.12.22	7/15/22	8:39 AM	✓	✓	✓	✓	✓	✓	T	2.02		
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:					
<u>Cassia Zeller</u>		<u>7/15/22</u> <u>8:41</u>	<u>8:46 AM</u>	<u>AC</u>		<u>7-18</u>	<u>10:17</u>	<input checked="" type="checkbox"/> Shipped Via: <u>USPS</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>21.9</u> Sample in good condition: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ Prelog storage: _____					

† - Sample Type Codes: Vegetation (V) ; Isolates (S) ; Extract/Concentrate (C)

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 info@columbialaboratories.com

Page _____ of _____
 www.columbialaboratories.com



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Document ID: 3177 Revision: 3
Effective: 04/26/2022
Page 1 of 1

PACKAGE RECEIVING FORM

Delivery Date: 7-18 Same as Opened By Date Unsure

How was the package delivered?

UPS FEDEX USPS DHL OTHER: _____

Tracking Number: 9405 5361 0899 2553 0179 41

		CIRCLE ONE	
1) Was package sealed with no evidence of holes/tampering?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
Further custody seal/tampering notes: _____			
2) Was packing material used?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
If YES: <input type="checkbox"/> PEANUTS <input checked="" type="checkbox"/> BUBBLE <input type="checkbox"/> WRAP <input type="checkbox"/> FOAM PAPER			
3) Was a Complete Chain of Custody (COC) received?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
Comment (PT?, Email?): _____			
4) Sample temperature upon arrival?		<u>21.9</u>	°C
5) Evidence of cooling?		<input type="radio"/> YES	<input checked="" type="radio"/> NO
If YES, What kind? <input type="checkbox"/> ICE <input type="checkbox"/> FREEZER PACK <input type="checkbox"/> DRY ICE			
Insulation? <input type="checkbox"/> PLASTIC COOLER <input type="checkbox"/> STYROFOAM <input type="checkbox"/> OTHER: _____			
6) Were sample containers sealed in separate plastic bags/secondary containment?		<input type="radio"/> YES	<input checked="" type="radio"/> NO
7) Did sample containers arrive in good condition?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
If NO: <input type="checkbox"/> LEAKED <input type="checkbox"/> BROKEN <input type="checkbox"/> OTHER: _____			
If NO: Suspect contamination of other samples? <input type="checkbox"/> YES <input type="checkbox"/> NO			
8) Sample labels present?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
9) Do sample labels agree with COC?		<input checked="" type="radio"/> YES	<input type="radio"/> NO
If NO, number of sample containers received: _____			

Sample pre-log location:

R39 R44 F44 R99 CANNA SHELF FOOD SHELF Other: _____

Other Notes:

Received By (initials): AC Date: 7-18 Time: 10:17



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Purchase Order: REV0TOP-MOC-7.12.
Received: 07/18/22 10:17

Revision: 1 Document ID: 7148
Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986 Batch ID: 2206122

Laboratory Control Sample									
Analyte	LCS	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	1	0.0331	0.033	%	99.5	80.0	- 120	Acceptable	
CBDV	1	0.0373	0.033	%	112	80.0	- 120	Acceptable	
CBE	1	0.0328	0.033	%	98.6	80.0	- 120	Acceptable	
CBDA	1	0.0300	0.032	%	92.6	90.0	- 110	Acceptable	
CBGA	1	0.0295	0.032	%	92.0	80.0	- 120	Acceptable	
CBG	1	0.0308	0.034	%	91.3	80.0	- 120	Acceptable	
CBD	1	0.0342	0.036	%	94.0	90.0	- 110	Acceptable	
THCV	1	0.0338	0.033	%	102	80.0	- 120	Acceptable	
d8THCV	1	0.0333	0.033	%	99.9	80.0	- 120	Acceptable	
THCVA	1	0.0312	0.033	%	93.7	80.0	- 120	Acceptable	
CBN	1	0.0334	0.034	%	97.8	90.0	- 110	Acceptable	
exo-THC	1	0.0340	0.033	%	102	80.0	- 120	Acceptable	
d9THC	1	0.0345	0.034	%	103	90.0	- 110	Acceptable	
d8THC	1	0.0328	0.032	%	102	90.0	- 110	Acceptable	
CBL	1	0.0322	0.033	%	96.7	80.0	- 120	Acceptable	
CBC	1	0.0364	0.033	%	109	80.0	- 120	Acceptable	
THCA	1	0.0287	0.031	%	92.5	90.0	- 110	Acceptable	
CBCA	1	0.0327	0.033	%	98.2	80.0	- 120	Acceptable	
CBLA	1	0.0329	0.033	%	98.9	80.0	- 120	Acceptable	
CBT	1	0.0362	0.033	%	109	80.0	- 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBDV	<LOQ	0.003	%	< 0.003	Acceptable	
CBE	<LOQ	0.003	%	< 0.003	Acceptable	
CBDA	<LOQ	0.003	%	< 0.003	Acceptable	
CBGA	<LOQ	0.003	%	< 0.003	Acceptable	
CBG	<LOQ	0.003	%	< 0.003	Acceptable	
CBD	<LOQ	0.003	%	< 0.003	Acceptable	
THCV	<LOQ	0.003	%	< 0.003	Acceptable	
d8THCV	<LOQ	0.003	%	< 0.003	Acceptable	
THCVA	<LOQ	0.003	%	< 0.003	Acceptable	
CBN	<LOQ	0.003	%	< 0.003	Acceptable	
exo-THC	<LOQ	0.003	%	< 0.003	Acceptable	
d9THC	<LOQ	0.003	%	< 0.003	Acceptable	
d8THC	<LOQ	0.003	%	< 0.003	Acceptable	
CBL	<LOQ	0.003	%	< 0.003	Acceptable	
CBC	<LOQ	0.003	%	< 0.003	Acceptable	
THCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBCA	<LOQ	0.003	%	< 0.003	Acceptable	
CBLA	<LOQ	0.003	%	< 0.003	Acceptable	
CBT	<LOQ	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



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



Report Number: 22-008454/D003.R000
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Revision: 1 Document ID: 7148
 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986		Batch ID: 2206122						
Sample Duplicate		Sample ID: 22-007953000102						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDV	0.0149	0.0149	0.003	%	0.206	< 20	Acceptable	
CBE	0.0224	0.0223	0.003	%	0.219	< 20	Acceptable	
CBD	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBG	0.0291	0.0290	0.003	%	0.481	< 20	Acceptable	
CBD	3.09	3.05	0.003	%	1.16	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBN	0.0143	0.0154	0.003	%	7.78	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
d9THC	0.0039	0.0041	0.003	%	3.88	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBC	0.0193	0.0192	0.003	%	0.462	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.003	%	NA	< 20	Acceptable	
CBT	0.0188	0.0181	0.003	%	3.89	< 20	Acceptable	

Abbreviations

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

Units of Measure:



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



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Revision: Document ID:
 Legacy ID: Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2206161					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		581	572	µg/g	101.6	60 - 120	
Isobutane	ND	< 200		736	731	µg/g	100.7	60 - 120	
Butane	ND	< 200		713	731	µg/g	97.5	60 - 120	
2,2-Dimethylpropane	ND	< 200		1000	936	µg/g	106.8	60 - 120	
Methanol	ND	< 200		1510	1650	µg/g	91.5	60 - 120	
Ethylene Oxide	ND	< 30		55.9	56.2	µg/g	99.5	60 - 120	
2-Methylbutane	ND	< 200		1370	1620	µg/g	84.6	60 - 120	
Pentane	ND	< 200		1420	1610	µg/g	88.2	60 - 120	
Ethanol	ND	< 200		1510	1620	µg/g	93.2	70 - 130	
Ethyl Ether	ND	< 200		1480	1600	µg/g	92.5	60 - 120	
2,2-Dimethylbutane	ND	< 30		157	167	µg/g	94.0	60 - 120	
Acetone	ND	< 200		1490	1620	µg/g	92.0	60 - 120	
2-Propanol	ND	< 200		1550	1610	µg/g	96.3	60 - 120	
Ethyl Formate	ND	< 500		1180	1620	µg/g	72.8	70 - 130	
Acetonitrile	ND	< 100		584	635	µg/g	92.0	60 - 120	
Methyl Acetate	ND	< 500		1380	1630	µg/g	84.7	70 - 130	
2,3-Dimethylbutane	ND	< 30		190	177	µg/g	107.3	60 - 120	
Dichloromethane	ND	< 60		475	498	µg/g	95.4	60 - 120	
2-Methylpentane	ND	< 30		166	166	µg/g	100.0	60 - 120	
MTBE	ND	< 500		1360	1600	µg/g	85.0	70 - 130	
3-Methylpentane	ND	< 30		166	175	µg/g	94.9	60 - 120	
Hexane	ND	< 30		166	174	µg/g	95.4	60 - 120	
1-Propanol	ND	< 500		1430	1620	µg/g	88.3	70 - 130	
Methylethylketone	ND	< 500		1380	1600	µg/g	86.3	70 - 130	
Ethyl acetate	ND	< 200		1540	1610	µg/g	95.7	60 - 120	
2-Butanol	ND	< 200		1580	1620	µg/g	97.5	60 - 120	
Tetrahydrofuran	ND	< 100		479	507	µg/g	94.5	60 - 120	
Cyclohexane	ND	< 200		1570	1610	µg/g	97.5	60 - 120	
2-methyl-1-propanol	ND	< 500		1440	1640	µg/g	87.8	70 - 130	
Benzene	ND	< 1		5.07	5.22	µg/g	97.1	60 - 120	
Isopropyl Acetate	ND	< 200		1580	1610	µg/g	98.1	60 - 120	
Heptane	ND	< 200		1540	1610	µg/g	95.7	60 - 120	
1-Butanol	ND	< 500		1450	1610	µg/g	90.1	70 - 130	
Propyl Acetate	ND	< 500		1420	1610	µg/g	88.2	70 - 130	
1,4-Dioxane	ND	< 100		539	508	µg/g	106.1	60 - 120	
2-Ethoxyethanol	ND	< 30		176	165	µg/g	106.7	60 - 120	
Methylisobutylketone	ND	< 500		1470	1610	µg/g	91.3	70 - 130	
3-Methyl-1-butanol	ND	< 500		1480	1600	µg/g	92.5	70 - 130	
Ethylene Glycol	ND	< 200		458	492	µg/g	95.1	60 - 120	
Toluene	ND	< 100		535	497	µg/g	107.6	60 - 120	
Isobutyl Acetate	ND	< 500		1440	1610	µg/g	89.4	70 - 130	
1-Pentanol	ND	< 500		1500	1600	µg/g	93.8	70 - 130	
Butyl Acetate	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
Ethylbenzene	ND	< 200		1100	980	µg/g	112.2	60 - 120	
m,p-Xylene	ND	< 200		1090	985	µg/g	110.7	60 - 120	
o-Xylene	ND	< 200		1100	965	µg/g	114.0	60 - 120	
Cumene	ND	< 30		193	168	µg/g	114.9	60 - 120	
Anisole	ND	< 500		1520	1600	µg/g	95.0	70 - 130	
DMSO	ND	< 500		1510	1610	µg/g	93.8	70 - 130	
1,2-dimethoxyethane	ND	< 50		147	165	µg/g	89.1	70 - 130	
Triethylamine	ND	< 500		1250	1620	µg/g	77.2	70 - 130	
N,N-dimethylformamide	ND	< 150		458	481	µg/g	95.2	70 - 130	
N,N-dimethylacetamide	ND	< 150		460	480	µg/g	95.8	70 - 130	
Pyridine	ND	< 50		158	171	µg/g	92.4	70 - 130	
Sulfone	ND	< 50		185	179	µg/g	103.4	70 - 130	
1,2-Dichloroethane	ND	< 1		1.08	1	µg/g	108.0	70 - 130	
Chloroform	ND	< 1		1.11	1	µg/g	111.0	70 - 130	
Trichloroethylene	ND	< 1		1.13	1	µg/g	113.0	70 - 130	



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



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Revision: Document ID:
 Legacy ID: Effective:

QC - Sample Duplicate			Sample ID: 22-007953-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150	µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	

Abbreviations

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

Units of Measure:

µg/g - Microgram per gram or ppm



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



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Revision: Document ID:
 Legacy ID: Effective:

Laboratory Quality Control Results

Residual Solvents **Batch ID:** 2206167

Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Acetic Acid	ND	< 200		240	261	µg/g	92.0	70 - 130	
Formic Acid	ND	< 200		294	308	µg/g	95.5	70 - 130	

QC - Sample Duplicate **Sample ID:** 22-008366-0005

Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
Acetic Acid	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Formic Acid	ND	ND	200	µg/g	0.0	< 20	Acceptable	

Abbreviations

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

Units of Measure:

µg/g- Microgram per gram or ppm



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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	Quantitation level raised due to matrix interference.
B	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.