



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



**Report Number:** 22-001016/D002.R000  
**Report Date:** 02/09/2022  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 01/20/22 00:00

**Customer:** Pure Kana  
**Product identity:** D8 Watermelon Zkittles Vape  
**Client/Metric ID:** Lot: PK-D8Bar-001  
**Laboratory ID:** 22-001016-0001

### Summary

#### Potency:

Analyte	Result	Limits	Units	Status	
CBT <sup>†</sup>	0.343		%		CBD-Total per 1g <LOQ
Δ8-THCV	0.354		%		
Δ8-THC <sup>†</sup>	66.1		%		THC-Total per 1g <LOQ
<b>Analyte per 1g</b>	<b>Result</b>	<b>Limits</b>	<b>Units</b>	<b>Status</b>	(Reported in milligrams per serving)
CBT per 1g <sup>†</sup>	3.43		mg/1g		
Δ8-THCV per 1g <sup>†</sup>	3.54		mg/1g		
Δ8-THC per 1g <sup>†</sup>	661		mg/1g		

#### Residual Solvents:

All analytes passing and less than LOQ.

#### Pesticides:

All analytes passing and less than LOQ.

#### Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
β-Caryophyllene <sup>†</sup>	0.650	44.52%	Humulene <sup>†</sup>	0.215	14.73%
Linalool <sup>†</sup>	0.198	13.56%	(R)-(+)-Limonene <sup>†</sup>	0.170	11.64%
α-Bisabolol <sup>†</sup>	0.0645	4.42%	(±)-trans-Nerolidol <sup>†</sup>	0.0624	4.27%
(-)-caryophyllene oxide <sup>†</sup>	0.0371	2.54%	(-)-β-Pinene <sup>†</sup>	0.0294	2.01%
β-Myrcene <sup>†</sup>	0.0290	1.99%	<b>Total Terpenes<sup>†</sup></b>	<b>1.46</b>	<b>100.00%</b>

#### Metals:

Less than LOQ for all analytes.

#### Microbiology:

Less than LOQ for all analytes.



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**Customer:** Pure Kana  
 United States of America (USA)  
**Product identity:** D8 Watermelon Zkittles Vape  
**Client/Metric ID:** Lot: PK-D8Bar-001  
**Sample Date:**  
**Laboratory ID:** 22-001016-0001  
**Serving Size #1:** 1 g



### Sample Results

Potency					
Method J AOAC 2015 V98-6 (mod) Units % Batch: 2200947 Analyze: 2/2/22 6:01:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC	< LOQ		%	0.0876	
CBC-A†	< LOQ		%	0.0876	
CBC-Total†	< LOQ		%	0.165	
CBD	< LOQ		%	0.0876	
CBD-A	< LOQ		%	0.0876	
CBD-Total	< LOQ		%	0.165	
CBDV†	< LOQ		%	0.0876	
CBDV-A†	< LOQ		%	0.0876	
CBDV-Total†	< LOQ		%	0.164	
CBE†	< LOQ		%	0.0876	
CBG†	< LOQ		%	0.0876	
CBG-A†	< LOQ		%	0.0876	
CBG-Total	< LOQ		%	0.164	
CBL†	< LOQ		%	0.0876	
CBL-A†	< LOQ		%	0.0876	
CBL-Total†	< LOQ		%	0.165	
CBN	< LOQ		%	0.0876	
CBT†	0.343		%	0.0876	
Δ8-THCV	0.354		%	0.0876	
Δ8-THC†	66.1		%	0.876	
Δ9-THC	< LOQ		%	0.0876	
THC-A	< LOQ		%	0.0876	
THC-Total	< LOQ		%	0.165	
THCV†	< LOQ		%	0.0876	
THCV-A†	< LOQ		%	0.0876	
THCV-Total†	< LOQ		%	0.164	
<b>Total Cannabinoids†</b>	<b>66.8</b>		%		

Potency per 1g					
Method J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2200947 Analyze: 2/2/22 6:01:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1g†	< LOQ		mg/1g	0.876	
CBC-A per 1g†	< LOQ		mg/1g	0.876	
CBC-Total per 1g†	< LOQ		mg/1g	1.65	
CBD per 1g	< LOQ		mg/1g	0.876	
CBD-A per 1g	< LOQ		mg/1g	0.876	
CBD-Total per 1g	< LOQ		mg/1g	1.65	



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Potency per 1g **Method** J AOAC 2015 V98-6 (mod) **Units** mg/se **Batch:** 2200947 **Analyze:** 2/2/22 6:01:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBDV per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
CBDV-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
CBDV-Total per 1g <sup>†</sup>	< LOQ		mg/1g	1.64	
CBE per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
CBG per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
CBG-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
CBG-Total per 1g <sup>†</sup>	< LOQ		mg/1g	1.64	
CBL per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
CBL-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
CBL-Total per 1g <sup>†</sup>	< LOQ		mg/1g	1.65	
CBN per 1g	< LOQ		mg/1g	0.876	
CBT per 1g <sup>†</sup>	3.43		mg/1g	0.876	
Δ8-THCV per 1g <sup>†</sup>	3.54		mg/1g	0.876	
Δ8-THC per 1g <sup>†</sup>	661		mg/1g	8.76	
Δ9-THC per 1g	< LOQ		mg/1g	0.876	
exo-THC per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
THC-A per 1g	< LOQ		mg/1g	0.876	
THC-Total per 1g	< LOQ		mg/1g	1.65	
THCV per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
THCV-A per 1g <sup>†</sup>	< LOQ		mg/1g	0.876	
THCV-Total per 1g <sup>†</sup>	< LOQ		mg/1g	1.65	
Total Cannabinoids per 1g	668		mg/1g		

**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000.00	cfu/g	10	2200892	02/04/22	AOAC 990.12 (Petrifilm)	pass	X, I
E.coli	< LOQ	100.00	cfu/g	10	2200890	02/04/22	AOAC 991.14 (Petrifilm)	pass	X, I
Total Coliforms	< LOQ	100.00	cfu/g	10	2200890	02/04/22	AOAC 991.14 (Petrifilm)	pass	X, I
Mold (RAPID Petrifilm)	< LOQ	1,000.00	cfu/g	10	2200891	02/05/22	AOAC 2014.05 (RAPID)	pass	X, I
Yeast (RAPID Petrifilm)	< LOQ	1,000.00	cfu/g	10	2200891	02/05/22	AOAC 2014.05 (RAPID)	pass	X, I
Salmonella spp. by PCR	Negative		/5g		2200895	02/03/22	AOAC 2020.02		X, I
EHEC including STEC	Negative		/5g		2200896	02/03/22	AOAC RI 121806		X, I

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

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



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Solvents					Residual Solvents by GC/MS					Batch 2200885				
Method					Analyze 02/02/22 09:38 AM									
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes			
1,4-Dioxane	< LOQ	380	100	pass		2-Butanol	< LOQ	5000	200	pass				
2-Ethoxyethanol	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200					
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass				
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200					
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0					
Acetone	< LOQ	5000	200	pass		Acetonitrile	< LOQ	410	100	pass				
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass				
Cyclohexane	< LOQ	3880	200	pass		Ethanol <sup>l</sup>	< LOQ		200					
Ethyl acetate	< LOQ	5000	200	pass		Ethyl benzene	< LOQ		200					
Ethyl ether	< LOQ	5000	200	pass		Ethylene glycol	< LOQ	620	200	pass				
Ethylene oxide	< LOQ	50.0	20.0	pass		Hexanes (sum)	< LOQ	290	150	pass				
Isopropyl acetate	< LOQ	5000	200	pass		Isopropylbenzene (Cumene)	< LOQ	70.0	30.0	pass				
m,p-Xylene	< LOQ		200			Methanol	< LOQ	3000	200	pass				
Methylene chloride	< LOQ	600	60.0	pass		Methylpropane (Isobutane)	< LOQ		200					
n-Butane	< LOQ		200			n-Heptane	< LOQ	5000	200	pass				
n-Hexane	< LOQ		30.0			n-Pentane	< LOQ		200					
o-Xylene	< LOQ		200			Pentanes (sum)	< LOQ	5000	600	pass				
Propane	< LOQ	5000	200	pass		Tetrahydrofuran	< LOQ	720	100	pass				
Toluene	< LOQ	890	100	pass		Total Xylenes	< LOQ		400					
Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass										



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2200825 Analyze 01/31/22 12:44 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	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	0.200	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	< 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		Fonicamid	< 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	0.200	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							

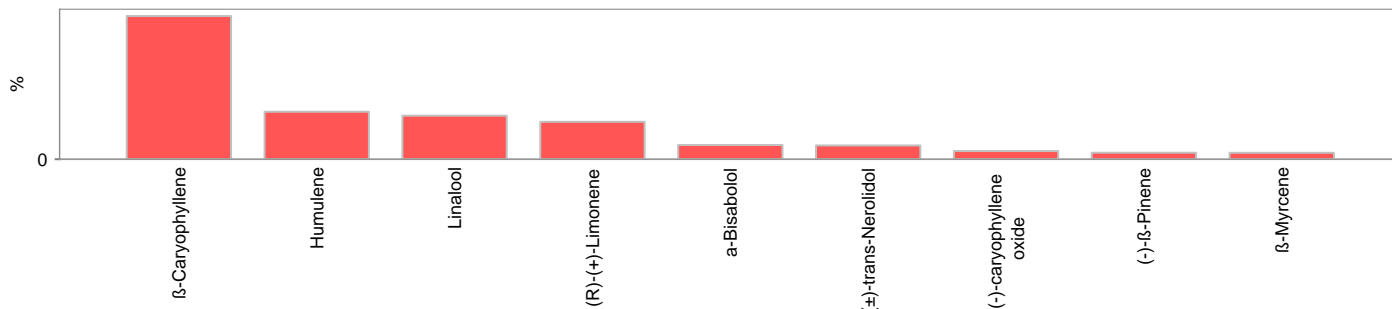


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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2200965	Analyze 02/02/22 11:18 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Caryophyllene <sup>†</sup>	0.650	0.019	44.521%		Humulene <sup>†</sup>	0.215	0.019	14.726%	
Linalool <sup>†</sup>	0.198	0.019	13.562%		(R)-(+)-Limonene <sup>†</sup>	0.170	0.019	11.644%	
α-Bisabolol <sup>†</sup>	0.0645	0.019	4.4178%		(±)-trans-Nerolidol <sup>†</sup>	0.0624	0.019	4.2740%	
(-)-caryophyllene oxide <sup>†</sup>	0.0371	0.019	2.5411%		(-)-β-Pinene <sup>†</sup>	0.0294	0.019	2.0137%	
β-Myrcene <sup>†</sup>	0.0290	0.019	1.9863%		α-pinene <sup>†</sup>	< LOQ	0.019	0.00%	
farnesene <sup>†</sup>	< LOQ	0.019	0.00%		(+)-fenchol <sup>†</sup>	< LOQ	0.019	0.00%	
(-)-α-Terpineol <sup>†</sup>	< LOQ	0.019	0.00%		Geranyl acetate <sup>†</sup>	< LOQ	0.019	0.00%	
Geraniol <sup>†</sup>	< LOQ	0.019	0.00%		Menthol <sup>†</sup>	< LOQ	0.019	0.00%	
cis-β-Ocimene <sup>†</sup>	< LOQ	0.006	0.00%		Terpinolene <sup>†</sup>	< LOQ	0.019	0.00%	
(+)-Cedrol <sup>†</sup>	< LOQ	0.019	0.00%		(+)-Pulegone <sup>†</sup>	< LOQ	0.019	0.00%	
(±)-Camphor <sup>†</sup>	< LOQ	0.019	0.00%		(±)-cis-Nerolidol <sup>†</sup>	< LOQ	0.019	0.00%	
(+)-Borneol <sup>†</sup>	< LOQ	0.019	0.00%		Camphene <sup>†</sup>	< LOQ	0.019	0.00%	
Sabinene hydrate <sup>†</sup>	< LOQ	0.019	0.00%		(±)-fenchone <sup>†</sup>	< LOQ	0.019	0.00%	
(-)-Isopulegol <sup>†</sup>	< LOQ	0.019	0.00%		(-)-Guaiol <sup>†</sup>	< LOQ	0.019	0.00%	
α-cedrene <sup>†</sup>	< LOQ	0.019	0.00%		α-phellandrene <sup>†</sup>	< LOQ	0.019	0.00%	
α-Terpinene <sup>†</sup>	< LOQ	0.019	0.00%		d-3-Carene <sup>†</sup>	< LOQ	0.019	0.00%	
Eucalyptol <sup>†</sup>	< LOQ	0.019	0.00%		γ-Terpinene <sup>†</sup>	< LOQ	0.019	0.00%	
Isoborneol <sup>†</sup>	< LOQ	0.019	0.00%		nerol <sup>†</sup>	< LOQ	0.019	0.00%	
p-Cymene <sup>†</sup>	< LOQ	0.019	0.00%		Sabinene <sup>†</sup>	< LOQ	0.019	0.00%	
trans-β-Ocimene <sup>†</sup>	< LOQ	0.012	0.00%		valencene <sup>†</sup>	< LOQ	0.019	0.00%	
<b>Total Terpenes</b>	<b>1.46</b>								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	68.5	2200986	02/03/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	68.5	2200986	02/03/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	171	2200986	02/03/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	34.2	2200986	02/03/22	AOAC 2013.06 (mod.)	pass	X



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**Mycotoxins**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aflatoxin B2†	< LOQ	5.00	µg/kg	5.00	2200886	02/02/22	AOAC 2007.01 & EN 15	pass	
Aflatoxin B1†	< LOQ	5.00	µg/kg	5.00	2200886	02/02/22	AOAC 2007.01 & EN 15	pass	
Aflatoxin G1†	< LOQ	5.00	µg/kg	5.00	2200886	02/02/22	AOAC 2007.01 & EN 15	pass	
Aflatoxin G2†	< LOQ	5.00	µg/kg	5.00	2200886	02/02/22	AOAC 2007.01 & EN 15	pass	
Ochratoxin A†	< LOQ	5.00	µg/kg	5.00	2200886	02/02/22	AOAC 2007.01 & EN 15	pass	
Ochratoxin B†	< LOQ	5.00	µg/kg	2.00	2200886	02/02/22	AOAC 2007.01 & EN 15	pass	



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**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.

**Threshold Note:** Action levels per 6 CCR 1010-21 CDPHE requirements

† = Analyte not NELAP accredited.

**Units of Measure**

cfu/g = Colony forming units per gram

g = Gram

µg/g = Microgram per gram

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

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

mg/1g = Milligram per 1g

/5g = Per 5 grams

% = Percentage of sample

% wt = µg/g divided by 10,000

**Glossary of Qualifiers**

I: Insufficient sample received to meet method requirements.

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner  
General Manager





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Hemp & Cannabis: Usable / Extract / Finished Product
Chain of Custody Record
ORELAP ID: OR100028 ANAB ISO 17025 ID: AT-1508

Document Control ID: 2832 Revision: 5
Effective: 01/04/2022

Company: Pure Kana
Contact: Todd Winnie
Address: 800 Union Ridge Rd
City: Burlington State: NC Zip Code: 27217
Analysis Requested
PO Number:
Project ID:
Batch ID:
Sampled by:
Source Material: Ind. Hemp product Rec. Cannabis
Reporting Type: Compliance R&D
Report to: METRC ODA USDA Other
Turnaround time (TAT - Business Days):
5BD 3BD\* 2BD\*
\*Check for availability
Lab ID Client Sample Identification Sample date Colorado Micro
D8 Watermelon Zkittles Vape
D8 Blue Dream Vape
Purecana-cart-d8-berrygelato-001
Purecana-cart-d8-bluedream-001
Purecana-cart-d8-watermelonzkittles-001
Signature - Relinquished By: Ryan Todd Date: 1-28-22 Time: 3:31PM
Signature - Received By: TDS Date: 2/1/22 Time: 10:37
Shipped Via: UPS
Evidence of cooling: Yes No - Temp (°C):
Sample in good condition: Yes No
Payment: Cash Check CC Net
Prelog storage:

† - Material Type Codes: Plant Material (P) ; Isolate (I) ; Concentrate/Extract (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B) ; Vapor Product (V)
Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms
12423 NE Whitaker Way
Portland, OR 97230
P: (503) 254-1794 | Fax: (503) 254-1452
info@columbiaboratories.com
Page \_\_\_ of \_\_\_
www.columbiaboratories.com

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.
Testing in accordance with: OAR 333-007-0390 OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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



Report Number: 22-001016/D002.R000  
Report Date: 02/09/2022  
ORELAP#: OR100028  
Purchase Order:  
Received: 01/20/22 00:00



Document ID: 3177 Revision: 2  
Effective: 06/25/2021  
Page 1 of 1

Job Number: \_\_\_\_\_ Search Name: \_\_\_\_\_

Package/Cooler opened on (if different than received date/time) Date: 2/1/22 Time: 10:37

Received By (Initials): DS Logged in by (Initials): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1) Were custody seals on outside of the package/cooler? YES NO NA  
If YES, how many and where? \_\_\_\_\_

Does date match collection date on COC? \_\_\_\_\_ YES NO NA

2) Was Chain of Custody (COC) included in the package/cooler? YES NO NA

3) Was COC signed when relinquished and received? (time, date)? YES NO NA

4) How was the package/cooler delivered?

UPS FEDEX USPS CLIENT COURIER OTHER: \_\_\_\_\_

Tracking Number (written in or copy of shipping label): 1Z VE1 468 01 1875 8162

5) Was packing material used? YES NO NA

Peanuts Bubble Wrap Foam Paper Other:

6) Was temperature upon receipt 4°C+- 2°C (if appropriate)? YES NO NA

If not, client contacted: \_\_\_\_\_  
Proceed? YES NO

7) Was there evidence of cooling? YES NO NA

What kind? 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 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

DS  
2/1/22

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

16) Sample location prior to login: R99 R39 R44 F44 Ambient Shelf Cannabis Table Other: \_\_\_\_\_

Explain any discrepancies: 16.7°C samples on line 1 & 2 not present in package or possibly samples 3&4



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**Purchase Order:**  
**Received:** 01/20/22 00:00

Revision: 3 Document ID: 3120  
 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

**Laboratory Pesticide Quality Control Results**

AOAC 2007.1 & EN 15662		Units: mg/Kg		Laboratory Control Sample		Batch ID: 2200825	
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits
Acetate	0.000	< 0.250		0.998	1.000	99.8	80.2 - 124
Acequinocyl	0.000	< 1.000		4.007	4.000	100.2	69.6 - 122
Acetamiprid	0.000	< 0.100		0.404	0.400	101.0	82.4 - 119
Aldicarb	0.000	< 0.200		0.849	0.800	106.1	70.8 - 131
Abamectin	0.000	< 0.250		0.850	1.000	85.0	72.6 - 128
Azoxystrobin	0.003	< 0.100		0.373	0.400	93.2	76.9 - 123
Bifenazate	0.000	< 0.100		0.559	0.400	139.7	88.5 - 164
Bifenthrin	0.000	< 0.100		0.396	0.400	99.0	72.7 - 123
Boscalid	0.000	< 0.200		0.782	0.800	97.7	74.0 - 131
Carbaryl	0.000	< 0.100		0.386	0.400	96.5	80.7 - 122
Carbofuran	0.000	< 0.100		0.402	0.400	100.5	71.5 - 133
Chlorantraniliprol	0.000	< 0.100		0.404	0.400	101.1	81.4 - 121
Chlorfenapyr	0.005	< 0.500		2.268	2.000	113.4	70.9 - 132
Chlorpyrifos	0.010	< 0.100		0.363	0.400	90.8	72.9 - 120
Clofentazine	0.000	< 0.100		0.387	0.400	96.7	74.6 - 122
Cyfluthrin	0.000	< 0.500		1.900	2.000	95.0	70.2 - 130
Cypermethrin	0.000	< 0.500		1.905	2.000	95.2	75.1 - 125
Daminozide	0.115	< 0.500		2.478	2.000	123.9	77.8 - 145
Diazinon	0.000	< 0.100		0.396	0.400	99.0	72.0 - 134
Dichlorvos	0.000	< 0.500		1.937	2.000	96.9	81.6 - 113
Dimethoat	0.000	< 0.100		0.394	0.400	98.5	81.7 - 118
Ethoprophos	0.000	< 0.100		0.382	0.400	95.5	74.2 - 127
Etofenprox	0.000	< 0.200		0.809	0.800	101.2	73.5 - 136
Etoxazol	0.000	< 0.100		0.464	0.400	116.0	75.3 - 129
Fenoxycarb	0.000	< 0.100		0.385	0.400	96.4	82.0 - 119
Fenpyroximat	0.000	< 0.200		0.811	0.800	101.4	79.6 - 121
Fipronil	0.000	< 0.200		0.810	0.800	101.3	83.5 - 128
Flonicamid	0.000	< 0.250		0.966	1.000	96.6	71.5 - 127
Fludioxonil	0.000	< 0.200		0.788	0.800	98.6	71.9 - 134
Hexythiazox	0.000	< 0.250		0.954	1.000	95.4	71.3 - 132
Imazalil	0.000	< 0.100		0.417	0.400	104.2	73.8 - 132
Imidacloprid	0.000	< 0.200		0.775	0.800	96.9	79.8 - 121
Kresoxim-Methyl	0.000	< 0.200		0.791	0.800	98.9	76.7 - 125
Malathion	0.000	< 0.100		0.401	0.400	100.4	75.5 - 130
Metaxyl	0.000	< 0.100		0.381	0.400	95.2	79.9 - 121
Methiocarb	0.000	< 0.100		0.373	0.400	93.3	82.7 - 120
Methomyl	0.000	< 0.200		0.748	0.800	93.5	68.1 - 127
MKG 264	0.000	< 0.100		0.384	0.400	96.0	77.8 - 124
Myclobutanil	0.000	< 0.100		0.395	0.400	98.7	73.9 - 127
Naled	0.000	< 0.250		1.012	1.000	101.2	80.2 - 116
Oxamyl	0.000	< 0.500		1.925	2.000	96.3	71.1 - 125
Paclobutrazol	0.000	< 0.200		0.783	0.800	97.8	80.4 - 121
Parathion Methyl	0.000	< 0.200		0.778	0.800	97.2	81.0 - 127
Permethrin	0.000	< 0.100		0.380	0.400	94.9	69.4 - 124
Phosmet	0.000	< 0.100		0.374	0.400	93.5	81.5 - 122
Piperonyl butoxide	0.000	< 0.500		2.048	2.000	102.4	71.7 - 133
Prallethrin	0.000	< 0.100		0.397	0.400	99.2	76.5 - 124
Propiconazole	0.000	< 0.200		0.800	0.800	99.9	82.3 - 120
Propoxur	0.000	< 0.100		0.394	0.400	98.6	74.4 - 126
Pyrethrins	0.000	< 0.100		0.410	0.413	99.3	73.0 - 136
Pyridaben	0.000	< 0.100		0.394	0.400	98.5	74.1 - 127
Spinosad	0.000	< 0.100		0.446	0.388	115.0	74.2 - 138
Spiromesifen	0.000	< 0.100		0.413	0.400	103.3	77.0 - 129
Spirotetramat	0.000	< 0.100		0.387	0.400	96.8	80.2 - 123
Spiroxamine	0.000	< 0.200		0.753	0.800	94.1	74.8 - 122
Tebuconazol	0.000	< 0.200		0.799	0.800	99.9	79.5 - 123
Thiacloprid	0.000	< 0.100		0.381	0.400	95.4	81.1 - 122
Thiamethoxam	0.000	< 0.100		0.382	0.400	95.4	70.1 - 130
Trifloxystrobin	0.000	< 0.100		0.380	0.400	95.1	76.5 - 128



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Revision: 3 Document ID: 3120  
 Legacy ID: CFL-C21 Worksheet Validated 10/30/2020

Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2200825			
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 22-000912-0001								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	0.967	1.001	1.000	3.4%	< 30	96.7%	100.1%	50 - 150	
Acequinocyl	0.000	3.395	3.303	4.000	2.8%	< 30	84.9%	82.6%	50 - 150	
Acetamiprid	0.000	0.390	0.401	0.400	3.0%	< 30	97.4%	100.3%	50 - 150	
Aldicarb	0.000	0.790	0.828	0.800	4.7%	< 30	98.7%	103.4%	50 - 150	
Abamectin	0.000	0.840	0.993	1.000	16.7%	< 30	84.0%	99.3%	50 - 150	
Azoxystrobin	0.003	0.373	0.372	0.400	0.2%	< 30	92.5%	92.3%	50 - 150	
Bifenazate	0.000	0.553	0.576	0.400	4.0%	< 30	138.2%	143.9%	50 - 150	
Bifenthrin	0.000	0.377	0.339	0.400	10.7%	< 30	94.2%	84.6%	50 - 150	
Boscalid	0.000	0.745	0.784	0.800	5.2%	< 30	93.1%	98.0%	50 - 150	
Carbaryl	0.000	0.369	0.378	0.400	2.5%	< 30	92.3%	94.6%	50 - 150	
Carbofuran	0.000	0.394	0.364	0.400	8.0%	< 30	98.4%	90.9%	50 - 150	
Chlorantraniliprol	0.000	0.403	0.384	0.400	4.9%	< 30	100.7%	95.9%	50 - 150	
Chlorfenapyr	0.127	2.081	1.817	2.000	14.5%	< 30	97.7%	84.5%	50 - 150	
Chlorpyrifos	0.009	0.350	0.337	0.400	3.8%	< 30	85.3%	82.1%	50 - 150	
Clofentezine	0.000	0.383	0.373	0.400	2.4%	< 30	95.6%	93.4%	50 - 150	
Cyfluthrin	0.000	1.906	1.726	2.000	9.9%	< 30	95.3%	86.3%	30 - 150	
Cypermethrin	0.000	1.407	1.238	2.000	12.8%	< 30	70.3%	61.9%	50 - 150	
Daminozide	0.111	2.108	2.103	2.000	0.2%	< 30	99.8%	99.6%	30 - 150	
Diazinon	0.000	0.384	0.403	0.400	4.7%	< 30	96.1%	100.6%	50 - 150	
Dichlorvos	0.000	1.831	1.942	2.000	5.9%	< 30	91.6%	97.1%	50 - 150	
Dimethoat	0.000	0.383	0.389	0.400	1.5%	< 30	95.9%	97.3%	50 - 150	
Ethoprophos	0.000	0.383	0.387	0.400	1.1%	< 30	95.8%	96.9%	50 - 150	
Etofenprox	0.000	0.654	0.627	0.800	4.2%	< 30	81.7%	78.4%	50 - 150	
Etoxazol	0.000	0.451	0.474	0.400	5.0%	< 30	112.8%	118.6%	50 - 150	
Fenoxycarb	0.000	0.387	0.384	0.400	0.8%	< 30	96.8%	96.0%	50 - 150	
Fenpyroximat	0.000	0.797	0.767	0.800	3.9%	< 30	99.7%	95.9%	50 - 150	
Fipronil	0.000	0.790	0.796	0.800	0.8%	< 30	98.8%	99.5%	50 - 150	
Fonicamid	0.000	0.877	1.047	1.000	17.7%	< 30	87.7%	104.7%	50 - 150	
Fludioxonil	0.000	0.813	0.810	0.800	0.3%	< 30	101.7%	101.3%	50 - 150	
Hexythiazox	0.000	0.920	0.905	1.000	1.6%	< 30	92.0%	90.5%	50 - 150	
Imazalil	0.000	0.417	0.405	0.400	2.7%	< 30	104.1%	101.3%	50 - 150	
Imidacloprid	0.000	0.692	0.768	0.800	10.4%	< 30	86.5%	96.0%	50 - 150	
Kresoxim-Methyl	0.000	0.745	0.782	0.800	4.9%	< 30	93.1%	97.8%	50 - 150	
Malathion	0.000	0.368	0.396	0.400	7.4%	< 30	91.9%	99.0%	50 - 150	
Metaxyl	0.000	0.370	0.375	0.400	1.4%	< 30	92.4%	93.7%	50 - 150	
Methiocarb	0.000	0.386	0.372	0.400	3.7%	< 30	96.5%	93.0%	50 - 150	
Methomyl	0.000	0.645	0.851	0.800	27.6%	< 30	80.6%	106.4%	50 - 150	
MGK 264	0.000	0.383	0.378	0.400	1.2%	< 30	95.7%	94.6%	50 - 150	
Myclobutanil	0.000	0.389	0.385	0.400	1.1%	< 30	97.3%	96.2%	50 - 150	
Naled	0.000	1.011	0.957	1.000	5.5%	< 30	101.1%	95.7%	50 - 150	
Oxamyl	0.000	1.711	2.135	2.000	22.0%	< 30	85.6%	106.8%	50 - 150	
Paclobutrazol	0.000	0.758	0.785	0.800	3.4%	< 30	94.7%	98.1%	50 - 150	
Parathion Methyl	0.025	0.826	0.850	0.800	2.9%	< 30	100.0%	103.0%	30 - 150	
Permethrin	0.000	0.342	0.304	0.400	11.9%	< 30	85.5%	75.9%	50 - 150	
Phosmet	0.000	0.357	0.386	0.400	7.8%	< 30	89.3%	96.5%	50 - 150	
Piperonyl butoxide	0.000	1.995	2.053	2.000	2.9%	< 30	99.7%	102.7%	50 - 150	
Prallethrin	0.000	0.369	0.381	0.400	3.0%	< 30	92.4%	95.2%	50 - 150	
Propiconazole	0.000	0.772	0.794	0.800	2.8%	< 30	96.5%	99.2%	50 - 150	
Propoxur	0.000	0.374	0.377	0.400	0.8%	< 30	93.6%	94.3%	50 - 150	
Pyrethrins	0.000	0.386	0.381	0.413	1.3%	< 30	93.5%	92.3%	50 - 150	
Pyridaben	0.000	0.246	0.249	0.400	1.2%	< 30	61.6%	62.3%	50 - 150	
Spinosad	0.000	0.430	0.438	0.388	1.8%	< 30	110.8%	112.9%	50 - 150	
Spiromesifen	0.000	0.407	0.391	0.400	4.1%	< 30	101.8%	97.7%	50 - 150	
Spirotetramat	0.000	0.367	0.396	0.400	7.7%	< 30	91.7%	99.1%	50 - 150	
Spiroxamine	0.000	0.750	0.759	0.800	1.2%	< 30	93.7%	94.9%	50 - 150	
Tebuconazol	0.000	0.787	0.794	0.800	0.9%	< 30	98.4%	99.2%	50 - 150	
Thiacloprid	0.000	0.375	0.378	0.400	0.9%	< 30	93.7%	94.6%	50 - 150	
Thiamethoxam	0.000	0.335	0.426	0.400	24.1%	< 30	83.7%	106.6%	50 - 150	
Trifloxystrobin	0.000	0.357	0.360	0.400	0.9%	< 30	89.2%	89.9%	50 - 150	



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Revision: Document ID:  
Legacy ID: Effective:

Laboratory Quality Control Results									
Residual Solvents					Batch ID: 2200885				
Method Blank	Laboratory Control Sample								
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		366	401	µg/g	91.3	70	130
Isobutane	ND	< 200		405	498	µg/g	81.3	70	130
Butane	ND	< 200		410	493	µg/g	83.2	70	130
2,2-Dimethylpropane	ND	< 200		648	628	µg/g	103.2	70	130
Methanol	ND	< 200		2050	1610	µg/g	127.3	70	130
Ethylene Oxide	ND	< 30		36.1	37.2	µg/g	97.0	70	130
2-Methylbutane	ND	< 200		2030	1630	µg/g	124.5	70	130
Pentane	ND	< 200		2080	1610	µg/g	129.2	70	130
Ethanol	ND	< 200		1970	1630	µg/g	120.9	70	130
Ethyl Ether	ND	< 200		2070	1610	µg/g	128.6	70	130
2,2-Dimethylbutane	ND	< 30		212	165	µg/g	128.5	70	130
Acetone	ND	< 200		2070	1610	µg/g	128.6	70	130
2-Propanol	ND	< 200		1920	1610	µg/g	119.3	70	130
Ethyl Formate	ND	< 500		2090	1620	µg/g	129.0	70	130
Acetonitrile	ND	< 100		640	498	µg/g	128.5	70	130
Methyl Acetate	ND	< 500		2180	1810	µg/g	120.4	70	130
2,3-Dimethylbutane	ND	< 30		203	162	µg/g	125.3	70	130
Dichloromethane	ND	< 60		595	498	µg/g	119.5	70	130
2-Methylpentane	ND	< 30		207	167	µg/g	124.0	70	130
MTBE	ND	< 500		2010	1610	µg/g	124.8	70	130
3-Methylpentane	ND	< 30		204	179	µg/g	114.0	70	130
Hexane	ND	< 30		192	164	µg/g	117.1	70	130
1-Propanol	ND	< 500		1840	1620	µg/g	113.6	70	130
Methylethylketone	ND	< 500		1920	1770	µg/g	108.5	70	130
Ethyl acetate	ND	< 200		2050	1620	µg/g	126.5	70	130
2-Butanol	ND	< 200		2040	1600	µg/g	127.5	70	130
Tetrahydrofuran	ND	< 100		611	500	µg/g	122.2	70	130
Cyclohexane	ND	< 200		1910	1610	µg/g	118.6	70	130
2-methyl-1-propanol	ND	< 500		1940	1610	µg/g	120.5	70	130
Benzene	ND	< 1		6.79	5.63	µg/g	120.8	70	130
Isopropyl Acetate	ND	< 200		1940	1610	µg/g	120.5	70	130
Heptane	ND	< 200		1980	1610	µg/g	123.0	70	130
1-Butanol	ND	< 500		1950	1620	µg/g	120.4	70	130
Propyl Acetate	ND	< 500		1980	1620	µg/g	122.2	70	130
1,4-Dioxane	ND	< 100		618	502	µg/g	123.1	70	130
2-Ethoxyethanol	ND	< 30		215	164	µg/g	131.1	70	130 Q1
Methylisobutylketone	ND	< 500		1980	1620	µg/g	122.2	70	130
3-Methyl-1-butanol	ND	< 500		1930	1620	µg/g	119.1	70	130
Ethylene Glycol	ND	< 200		594	502	µg/g	118.3	70	130
Toluene	ND	< 200		559	488	µg/g	114.5	70	130
Isobutyl Acetate	ND	< 500		2110	1700	µg/g	124.1	70	130
1-Pentanol	ND	< 500		2000	1630	µg/g	122.7	70	130
Butyl Acetate	ND	< 500		2040	1660	µg/g	122.9	70	130
Ethylbenzene	ND	< 200		1070	965	µg/g	110.9	70	130
m,p-Xylene	ND	< 200		1090	990	µg/g	110.1	70	130
o-Xylene	ND	< 200		1050	971	µg/g	108.1	70	130
Cumene	ND	< 30		188	179	µg/g	105.0	70	130
Anisole	ND	< 500		1680	1650	µg/g	101.8	70	130
DMSO	ND	< 500		1710	1630	µg/g	104.9	70	130
1,2-dimethoxyethane	ND	< 50		215	183	µg/g	117.5	70	130
Triethylamine	ND	< 500		1940	1620	µg/g	119.8	70	130
N,N-dimethylformamide	ND	< 150		562	495	µg/g	113.5	70	130
N,N-dimethylacetamide	ND	< 150		564	502	µg/g	112.4	70	130
Pyridine	ND	< 50		226	186	µg/g	121.5	70	130
1,2-Dichloroethane	ND	< 1		1.15	1	µg/g	115.0	70	130
Chloroform	ND	< 1		1.1	1	µg/g	110.0	70	130
Trichloroethylene	ND	< 1		1.01	1	µg/g	101.0	70	130



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Revision: Document ID:  
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QC - Sample Duplicate Sample ID: 22-000993-0001

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	
Methylcyclohexane	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	200	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	
Buyl 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	
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  
 Q1 - Quality control result, biased high. Only non-detect samples reported.

**Units of Measure:**

µg/g - Microgram per gram or ppm



12423 NE Whitaker Way  
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503-254-1794

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**Laboratory Quality Control Results**

**J AOAC 2015 V98-6** **Batch ID: 2200947**

Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	0.193	0.2	%	96.7	85.0	- 115	Acceptable	
CBDV	0.201	0.2	%	100	85.0	- 115	Acceptable	
CBE	0.200	0.2	%	100	85.0	- 115	Acceptable	
CBDA	0.216	0.2	%	108	85.0	- 115	Acceptable	
CBGA	0.193	0.2	%	96.5	85.0	- 115	Acceptable	
CBG	0.190	0.2	%	94.9	85.0	- 115	Acceptable	
CBD	0.217	0.2	%	109	85.0	- 115	Acceptable	
THCV	0.186	0.2	%	93.0	85.0	- 115	Acceptable	
d8THCV	0.191	0.2	%	95.5	85.0	- 115	Acceptable	
THCVA	0.191	0.2	%	95.3	85.0	- 115	Acceptable	
CBN	0.211	0.2	%	105	85.0	- 115	Acceptable	
exo-THC	0.180	0.2	%	90.2	85.0	- 115	Acceptable	
d9THC	0.202	0.2	%	101	85.0	- 115	Acceptable	
d8THC	0.171	0.2	%	85.4	85.0	- 115	Acceptable	
CBL	0.189	0.2	%	94.3	85.0	- 115	Acceptable	
CBC	0.184	0.2	%	91.9	85.0	- 115	Acceptable	
THCA	0.210	0.2	%	105	85.0	- 115	Acceptable	
CBCA	0.202	0.2	%	101	85.0	- 115	Acceptable	
CBLA	0.204	0.2	%	102	85.0	- 115	Acceptable	
CBT	0.224	0.2	%	112	85.0	- 115	Acceptable	

**Method Blank**

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.01	%	< 0.01	Acceptable	
CBDV	<LOQ	0.01	%	< 0.01	Acceptable	
CBE	<LOQ	0.01	%	< 0.01	Acceptable	
CBDA	<LOQ	0.01	%	< 0.01	Acceptable	
CBGA	<LOQ	0.01	%	< 0.01	Acceptable	
CBG	<LOQ	0.01	%	< 0.01	Acceptable	
CBD	<LOQ	0.01	%	< 0.01	Acceptable	
THCV	<LOQ	0.01	%	< 0.01	Acceptable	
d8THCV	<LOQ	0.01	%	< 0.01	Acceptable	
THCVA	<LOQ	0.01	%	< 0.01	Acceptable	
CBN	<LOQ	0.01	%	< 0.01	Acceptable	
exo-THC	<LOQ	0.01	%	< 0.01	Acceptable	
d9THC	<LOQ	0.01	%	< 0.01	Acceptable	
d8THC	<LOQ	0.01	%	< 0.01	Acceptable	
CBL	<LOQ	0.01	%	< 0.01	Acceptable	
CBC	<LOQ	0.01	%	< 0.01	Acceptable	
THCA	<LOQ	0.01	%	< 0.01	Acceptable	
CBCA	<LOQ	0.01	%	< 0.01	Acceptable	
CBLA	<LOQ	0.01	%	< 0.01	Acceptable	
CBT	<LOQ	0.01	%	< 0.01	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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**Laboratory Quality Control Results**

J AOAC 2015 V98-6								
Batch ID: 2200947								
Sample Duplicate								
Sample ID: 21-004618-0004								
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	0.255	0.258	0.1	%	1.17	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBGA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBG	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBD	95.3	96.2	0.1	%	0.934	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBN	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBCA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.1	%	NA	< 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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Legacy ID: CFL-E57Worksheet Validated 11/04/2020

**Terpenes Quality Control Results**

Method Reference: EPA 5035				Batch ID: 2200965					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		356	500	µg/g	71%	70 - 130	
Camphene	<LOQ	< 200		380	500	µg/g	76%	70 - 130	
Sabinene	<LOQ	< 200		388	500	µg/g	78%	70 - 130	
b-Pinene	<LOQ	< 200		385	500	µg/g	77%	70 - 130	
b-Myrcene	<LOQ	< 200		386	500	µg/g	77%	70 - 130	
a-phellandrene	<LOQ	< 200		365	500	µg/g	73%	70 - 130	
d-3-Carene	<LOQ	< 200		371	500	µg/g	74%	70 - 130	
a-Terpinene	<LOQ	< 200		353	500	µg/g	71%	70 - 130	
p-Cymene	<LOQ	< 200		358	500	µg/g	72%	70 - 130	
D-Limonene	<LOQ	< 200		376	500	µg/g	75%	70 - 130	
Eucalyptol	<LOQ	< 200		362	500	µg/g	72%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		119	167	µg/g	72%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		249	333	µg/g	75%	70 - 130	
g-Terpinene	<LOQ	< 200		377	500	µg/g	75%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		360	500	µg/g	72%	70 - 130	
Terpinolene	<LOQ	< 200		370	500	µg/g	74%	70 - 130	
D-Fenchone	<LOQ	< 200		393	500	µg/g	79%	70 - 130	
Linalool	<LOQ	< 200		390	500	µg/g	78%	70 - 130	
Fenchol	<LOQ	< 200		352	500	µg/g	70%	70 - 130	
Camphor	<LOQ	< 200		352	500	µg/g	70%	70 - 130	
Isopulego	<LOQ	< 200		377	500	µg/g	75%	70 - 130	
Isoborneol	<LOQ	< 200		374	500	µg/g	75%	70 - 130	
Borneol	<LOQ	< 200		356	500	µg/g	71%	70 - 130	
DL-Menthol	<LOQ	< 200		364	500	µg/g	73%	70 - 130	
Terpineol	<LOQ	< 200		321	500	µg/g	64%	70 - 130	Q
Nerol	<LOQ	< 200		359	500	µg/g	72%	70 - 130	
Pulegone	<LOQ	< 200		365	500	µg/g	73%	70 - 130	
Geraniol	<LOQ	< 200		351	500	µg/g	70%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		375	500	µg/g	75%	70 - 130	
a-Cedrene	<LOQ	< 200		350	500	µg/g	70%	70 - 130	
b-Caryophyllene	<LOQ	< 200		366	500	µg/g	73%	70 - 130	
a-Humulene	<LOQ	< 200		363	500	µg/g	73%	70 - 130	
Valenene	<LOQ	< 200		365	500	µg/g	73%	70 - 130	
cis-Nerolidol	<LOQ	< 200		376	500	µg/g	75%	70 - 130	
a-Farnesene	<LOQ	< 200		368	500	µg/g	74%	70 - 130	
trans-Nerolidol	<LOQ	< 200		357	500	µg/g	71%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		428	500	µg/g	86%	70 - 130	
Guaiol	<LOQ	< 200		384	500	µg/g	77%	70 - 130	
Cedrol	<LOQ	< 200		386	500	µg/g	77%	70 - 130	
a-Bisabolol	<LOQ	< 200		390	500	µg/g	78%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery
Q	Matrix interference affecting spike or surrogate recoveries



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**Terpenes Quality Control Results**

Method Reference: EPA 5035		Batch ID: 2200965					
Sample/Sample Duplicate		Sample ID: 22-001001-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	262	257	182	µg/g	2%	< 20	
Camphene	<LOQ	<LOQ	182	µg/g	0%	< 20	
Sabinene	307	295	182	µg/g	4%	< 20	
b-Pinene	214	214	182	µg/g	0%	< 20	
b-Myrcene	219	212	182	µg/g	3%	< 20	
a-phellandrene	<LOQ	<LOQ	182	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	182	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	182	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	182	µg/g	0%	< 20	
D-Limonene	377	397	182	µg/g	5%	< 20	
Eucalyptol	<LOQ	<LOQ	182	µg/g	0%	< 20	
b-cis-Ocimene	466	467	60.6	µg/g	0%	< 20	
b-trans-Ocimene	210	212	121	µg/g	1%	< 20	
g-Terpinene	<LOQ	<LOQ	182	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	182	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	182	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	182	µg/g	0%	< 20	
Linalool	3010	3120	182	µg/g	4%	< 20	
Fenchol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	182	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	182	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	182	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	182	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	182	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	182	µg/g	0%	< 20	
b-Caryophyllene	1050	1080	182	µg/g	3%	< 20	
a-Humulene	<LOQ	<LOQ	182	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	182	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	182	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	182	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	182	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	182	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	182	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	182	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



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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.