




Customer: Sunset Butte LLC
Product identity: Ekto Cooler 8
Client/Metric ID: .
Laboratory ID: 22-011796-0022

Summary

Potency:

Analyte	Result (%)		
Δ -THC	78.7	 <ul style="list-style-type: none"> ● Δ8-THC ● Δ8-THCV ● CBD ● CBT 	CBD-Total <LOQ
8 -THCV	0.285		THC-Total <LOQ
ΔBD	0.114		(Reported in percent of total sample)
ΔBT	0.0685		

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
(R) - (+) - Limonene	3.66	95.31%	(-) - β-Pinene	0.060	1.57
β-Caryophyllene	0.0439	1.14%	β-Myrcene	4	%
gamma-Terpinene	0.0235	0.61%	Linalool	0.024	0.65
Total Terpenes	3.84	100.00%		8	%
				0.023	0.60
				0	%



Customer: Sunset Butte LLC
United States of America (USA)

Product identity: Ekto Cooler 8

Client/Metric ID: .

Sample Date: 22-011796-0022

Laboratory ID: No

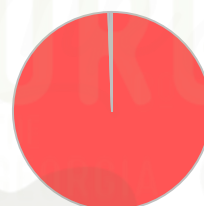
Evidence of Cooling: 19.9 °C

Temp: usps

Relinquished by:

Sample Results

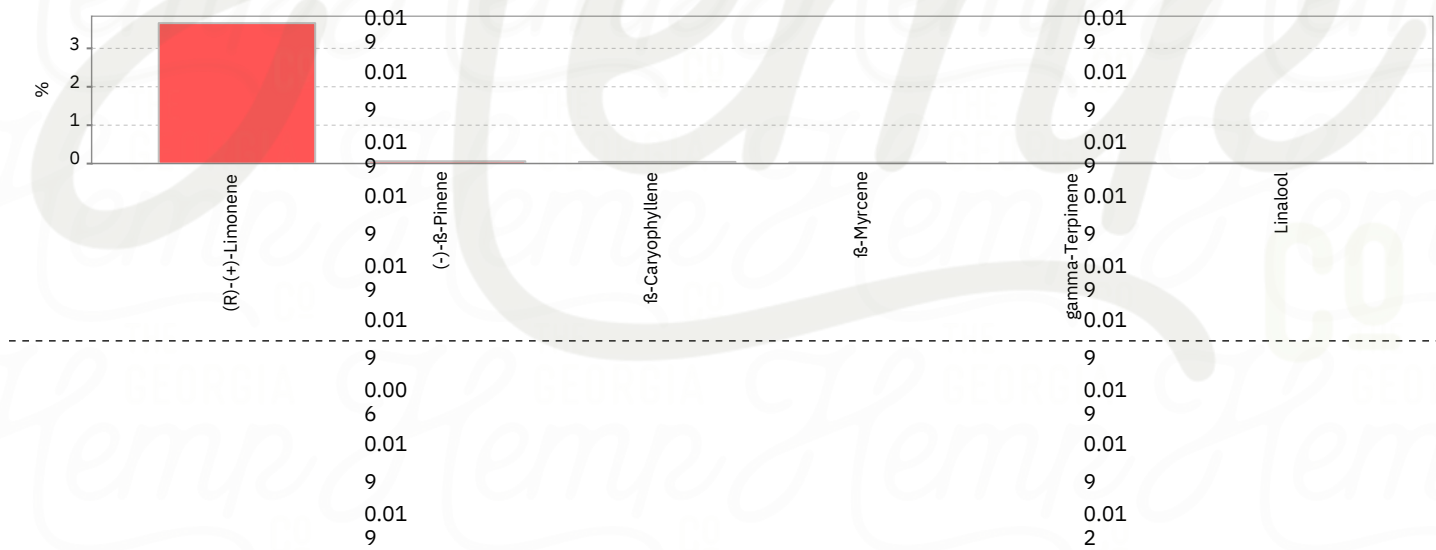
Potency	Method: J AOAC 2015 V98-6 (mod)p	Units %	Batch: 2208363	Analyze: 10/4/22 5:34:00 AM
Analyte	As Dry Received weight	LOQ	Notes	
CBC	<LOQ	0.0672		
CBC-A	<LOQ	0.0672		
CBC-Total	<LOQ	0.126		
CBD	0.114	0.0672		
CBD-A	<LOQ	0.0672		
CBD-Total	<LOQ	0.126		
CBDV	<LOQ	0.0672		
CBDV-A	<LOQ	0.0672		
CBDV-Total	<LOQ	0.125		
CBE	<LOQ	0.0672		
CBG	<LOQ	0.0672		
CBG-A	<LOQ	0.0672		
CBG-Total	<LOQ	0.125		
CBL	<LOQ	0.0672		
CBL-A	<LOQ	0.0672		
CBL-Total	<LOQ	0.126		
CBN	<LOQ	0.0672		
CBT	0.0685	0.0672		
Δ10- THC	<LOQ	0.0672		
Δ8-THC	78.7	0.672		
Δ8-THCV	0.285	0.0672		
Δ9-THC	<LOQ	0.0672		
exo-THC	<LOQ	0.0672		
THC-A	<LOQ	0.0672		
THC-Total	<LOQ	0.126		
THCV	<LOQ	0.0672		
THCV-A	<LOQ	0.0672		
THCV-Total	<LOQ	0.125		
Total Cannabinoids	79.2			





Terpenes **Method:** J AOAC 2015 V98-6 **Units %** **Batch** 2208520 **Analyze** 10/06/22 05:01 PM

Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(R) - (+) - Limonene	3.66	0.01	95.31%		(-) - β -Pinene β -	0.060	0.01	1.5729%	
β -Caryophyllene	0.0439	9	1.1432%		Myrcene	4	9	0.6458%	
gamma-Terpinene	0.0235	0.01	0.6120%		Linalool	0.024	0.01	0.5990%	
Humulene	<LOQ	9	0.00%		p-Cymene	8	9	0.00%	
a-pinene	<LOQ	0.01	0.00%		(\pm) - trans-	0.023	0.01	0.00%	
Sabinene	<LOQ	9	0.00%		Nerolidol a-	0	9	0.00%	
(\pm) - cis-Nerolidol	<LOQ	0.01	0.00%		Bisabolol	<LOQ	0.01	0.00%	
valencene	<LOQ	9	0.00%		Menthol	<LOQ	9	0.00%	
a-phellandrene	<LOQ	0.01	0.00%		Geraniol	<LOQ	0.01	0.00%	
(-) - caryophyllene oxide	<LOQ	9	0.00%		Geranylacetate	<LOQ	9	0.00%	
Isoborneol	<LOQ	0.01	0.00%		(+) - Cedrol	<LOQ	0.01	0.00%	
Terpinolene	<LOQ	9	0.00%		(+) - Borneol	<LOQ	9	0.00%	
(-) - a-Terpineol	<LOQ	0.01	0.00%		(+) - fenchol d-3-	<LOQ	0.01	0.00%	
Camphene	<LOQ	9	0.00%		Carene	<LOQ	9	0.00%	
(-) - Guaiol	<LOQ	0.01	0.00%		(\pm) - fenchone	<LOQ	0.01	0.00%	
(+) - Pulegone	<LOQ	9	0.00%		(-) - Isopulegol	<LOQ	9	0.00%	
a-cedrene	<LOQ	0.01	0.00%		(\pm) - Camphor a-	<LOQ	0.01	0.00%	
cis- β -Ocimene	<LOQ	9	0.00%		Terpinene	<LOQ	9	0.00%	
farnesene	<LOQ	0.01	0.00%		Eucalyptol	<LOQ	9	0.00%	
Sabinene hydrate	<LOQ	9	0.00%		nerol trans- β -	<LOQ	0.01	0.00%	
		0.01			Ocimene	<LOQ	9	0.00%	
Total Terpenes	3.84	9				<LOQ	0.01		
		9				<LOQ	9		





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.

^p
= ISO/IEC 17025:2017 accredited method.

Units of Measure

% = Percentage of sample

% wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory



Derrick Tanner
General Manager



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

Report Number: 22-
Report Date: 011796/D011.R000
ORELAP#: 10/07/2022
Purchase Order: OR100028
Received: 09/30/22 10:16



Hemp / Cannabis Usable / Extract / Finished Products

SUNSET 22-011796

Chain of Custody Record

Document Control ID: 2732 Revision: 1
Effective: 05/04/2021
ORELAP ID: OR100028



Sunset Butte LLC

Company: Sunset Butte LLC
Contact: Carm Hall
Street: 65686 Clive Falls Rd
City: Bend State: OR Zip: 97703
Email Results: soundsgoodgary@icloud.com
Ph: () Fx Results: ()
Billing (if different):

Analysis Requested										
Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other:

PO Number: _____
Project Number: _____
Project Name: _____
Custom Reporting: _____
Report to State - METRC or Other: _____
Turnaround time: 5 Business Day Standard Turnaround
 3 Business Day Rush Turnaround*
 2 Business Day Rush Turnaround*
*Check for availability
Sampled by: _____

Lab ID	Client Sample Identification	Date	Time	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other:	Sample Type †	Weight (Units)	Comments/Metric ID
	Banana Runtz 8	9/29	10:45a			X			X							5ml	
	Pineapple Express 8	9/29				X			X							5ml	
	Ekte Cooler 8	9/29				X			X							5ml	
	Grape Ape 8	9/29				X			X							5ml	
	Wifi OG 8	9/29				X			X							5ml	
	Purple Punch 8	9/29				X			X							5ml	
	Granddaddy Purple 8	9/29				X			X							5ml	
	Obama Kush 8	9/29				X			X							5ml	
	Obama Kush Pure 8	9/29		X		X			X		X					10ml	

Relinquished By:	Date	Time	Received By:	Date	Time	Lab Use Only:
<u>[Signature]</u>	9/29	10:45a	<u>RBS</u>	9/30	10:17	Shipped Via: <u>UPS</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>19.9</u> Sample in good condition: <input type="checkbox"/> Yes <input 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) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

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



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

Report Number: 22-
Report Date: 011796/D011.R000
ORELAP#: 10/07/2022
Purchase Order: OR100028
Received: 09/30/22 10:16



Hemp / Cannabis Usable / Extract / Finished Products

Chain of Custody Record

Document Control ID: 2732 Revision: 1
Effective: 05/04/2021
ORELAP ID: OR100028

Company: <u>Sunset Butte LLC</u> Contact: <u>Gary Hall</u> Street: <u>65686 Clint Falls Rd</u> City: <u>Bend</u> State: <u>OR</u> Zip: <u>97703</u> <input checked="" type="checkbox"/> Email Results: <u>soundgoodgary @ icloud.com</u> Ph: <u>(541) 480-0278</u> <input type="checkbox"/> Fx Results: () Billing (if different): _____				Analysis Requested <input type="checkbox"/> Pesticides - OR 59 compounds <input type="checkbox"/> Pesticide Multi-Residue - 379 compounds <input type="checkbox"/> potency <input type="checkbox"/> Residual Solvents <input type="checkbox"/> Moisture & Water Activity <input type="checkbox"/> Terpenes <input type="checkbox"/> Micro: Yeast and Mold <input type="checkbox"/> Micro: E.Coli and Total Coliform <input type="checkbox"/> Heavy Metals <input type="checkbox"/> Mycotoxins <input type="checkbox"/> Other: _____								PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* *Check for availability		
Sampled by: <u>[Signature]</u>				Sample Type †		Weight (µg/ml)		Comments/Metrc ID						
Lab ID	Client Sample Identification	Date	Time											
	Relax CBD	9/29	10:30am		X			X		5m				
	Focus CBD	9/29	10:30am		X			X		5m				
	Revive CBD	9/29			X			X		5m				
	Georgia Pie 8	9/29			X			X		5m				
	Thin Mint 8	9/29			X			X		5m				
	Strawberry Cough 8	9/29			X			X		5m				
	7lb Hammer 8	9/29			X			X		5m				
	Northern Lights 8	9/29			X			X		5m				
	Bubba Kush 8	9/29			X			X		5m				
Relinquished By:		Date	Time	Received By:			Date	Time	Lab Use Only:					
<u>[Signature]</u>		9/29	10:30am	RBS			9/30	10:16	<input checked="" type="checkbox"/> Shipped Via: <u>USPS</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input type="checkbox"/> No - Temp (°C): <u>19.9</u> Sample in good condition: <input type="checkbox"/> Yes <input 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) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

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12423 NE Whitaker Way
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Report Number: 22-
Report Date: 011796/D011.R000
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Purchase Order: OR100028
Received: 09/30/22 10:16



Hemp / Cannabis Usable / Extract / Finished Products

Chain of Custody Record

Document Control ID: 2732 Revision: 1
 Effective: 05/04/2021
 ORELAP ID: OR100028

Company: <u>Sunset Butte LLC</u> Contact: <u>Gary Hall</u> Street: <u>68886 Cline Falls Rd</u> City: <u>Bend</u> State: <u>OR</u> Zip: <u>97703</u> <input checked="" type="checkbox"/> Email Results: <u>sounds good gary R</u> <input checked="" type="checkbox"/> Fx Results: <u>etc loads con</u> Ph: () () () () () () Billing (if different): _____				Analysis Requested Pesticides - OR 59 compounds Pesticide Multi-Residue - 379 compounds Potency Residual Solvents Moisture & Water Activity Terpenes Micro: Yeast and Mold Micro: E.Coli and Total Coliform Heavy Metals Mycotoxins Other: _____										PO Number: _____ Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input checked="" type="checkbox"/> 5 Business Day Standard Turnaround <input type="checkbox"/> 3 Business Day Rush Turnaround* <input type="checkbox"/> 2 Business Day Rush Turnaround* *Check for availability			
Sampled by: _____														Sample Type † Weight (µg/ml) Comments/Metrc ID			
Lab ID	Client Sample Identification	Date	Time	Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Moisture & Water Activity	Terpenes	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	Heavy Metals	Mycotoxins	Other	Sample Type †	Weight (µg/ml)	Comments/Metrc ID
	Ice Cream Cook 8	9/29	10:40a			X			X							5m	
	Mendo Breath 8					X			X							5m	
	Blue Dream 8					X			X							5m	
	Clementine 8					X			X							5m	
	King Louis 8					X			X							5m	
	Gelato 8					X			X							5m	
	Z Kitter 8					X			X							5m	
	Forbidden Fruit 8					X			X							5m	
	Green Crade 8					X			X							5m	
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:									
<u>[Signature]</u>		9/29	10:40a	<u>[Signature]</u>		9/30	10:16	<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>19.8</u> Sample in good condition: <input type="checkbox"/> Yes <input 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) ; Tincture/Topical (T) ; Edible (E) ; Beverage (B)

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Report Number: 22-
Report Date: 011796/D011.R000
ORELAP#: 10/07/2022
Purchase Order: OR100028
Received: 09/30/22 10:16



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

Laboratory Quality Control Results
Batch ID: 2208363

J AOAC 2015 V98-6										
Laboratory Control Sample										
Analyte	LCS	Result	Spike	Units	% ReLimits	Limits			Evaluation	Notes
CBDVA	2	0.106	0.10	%	102	80.	-	12	Acceptable	
CBDV	2	0.116	0.11	%	106	0	-	0	Acceptable	
CBE	2	0.106	0.11	%	102	80.	-	12	Acceptable	
CBDA	1	0.100	0	%	100	0	-	0	Acceptable	
CBGA	1	0.100	0.10	%	99.	80.	-	12	Acceptable	
CBG	1	0.103	0	%	6	0	-	0	Acceptable	
CBN	1	0.111	0.10	%	100	90.	-	11	Acceptable	
THCV	2	0.111	0	%	108	0	-	0	Acceptable	
Δ8THCV	2	0.107	0.10	%	98	80.	-	12	Acceptable	
THCVA	2	0.107	1	%	3	0	-	0	Acceptable	
CBN	1	0.097	0.10	%	96.	80.	-	12	Acceptable	
exo-THC	2	1	3	%	7	0	-	0	Acceptable	
Δ9THC	1	0.097	0.10	%	107	90.	-	11	Acceptable	
Δ8THC	1	8	3	%	96.	0	-	0	Acceptable	
CBL	2	0.099	0.11	%	1	80.	-	12	Acceptable	
Δ10THC	1	8	3	%	95.	0	-	0	Acceptable	
CBG	2	0.091	0.11	%	3	80.	-	12	Acceptable	
THCA	1	0	0	%	96.	0	-	0	Acceptable	
CBGA	2	0.095	0.10	%	4	80.	-	12	Acceptable	
CBLA	2	1	1	%	91.	0	-	0	Acceptable	
CBT	2	0.090	0.10	%	2	90.	-	11	Acceptable	
		1	1		96.	0	-	0		
		0.104	0.10		5	80	-	12		
Method Blank										
Analyte		Result	0.092	Units	94.	0	Limits	0	Evaluation	Notes
			6		90.	11				
CBDVA		<LOQ	0.108	0.007	% 95.	0	<0.0077	0	Acceptable	
CBDV		<LOQ	0.056	0.007	% 8	90.	<0.0077	11	Acceptable	
CBE		<LOQ	7	0.007	% 93.	0	<0.0077	0	Acceptable	
CBDA		<LOQ	0.101	0.007	% 1	80.	<0.0077	12	Acceptable	
CBGA		<LOQ		0.007	% 103	0	<0.0077	0	Acceptable	
CBG		<LOQ		0.007	% 101	80.	<0.0077	12	Acceptable	
CBN		<LOQ		0.007	% 90.	0	<0.0077	0	Acceptable	
THCV		<LOQ		0.10	% 2	80.	<0.0077	12	Acceptable	
Δ8THCV		<LOQ		0.007	% 2	80.	<0.0077	12	Acceptable	
THCVA		<LOQ		0.09	% 0	<0.0077	0	Acceptable		
CBN		<LOQ		0.007	% 0	<0.0077	11	Acceptable		
exo-THC		<LOQ		0.10	% 0	<0.0077	0	Acceptable		
Δ9THC		<LOQ		0.007	% 80	<0.0077	12	Acceptable		
Δ8THC		<LOQ		0.05	% 0	<0.0077	0	Acceptable		
CBL		<LOQ		0.007	% 80.	<0.0077	12	Acceptable		
Δ10THC		<LOQ		0.11	% 0	<0.0077	0	Acceptable		
CBG		<LOQ		0.007	% 80.	<0.0077	12	Acceptable		
THCA		<LOQ		0	% 0	<0.0077	0	Acceptable		
CBGA		<LOQ		0.007	% 0	<0.0077	0	Acceptable		
CBLA		<LOQ		7	% 0	<0.0077	0	Acceptable		
CBT		<LOQ		0.007	% 0	<0.0077	0	Acceptable		
				7						
				0.007						

Abbreviations
 ND -None Detected at or above MRL
 RPD -Relative Percent Difference
 LOQ -Limit of Quantitation
 Units of Measure:
 % - Percent



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

Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2208363		Sample Duplicate		Subplot: 21-0001-01	
Analyte	Result	Org. Result	LOQ	Units	RPD Limits Evaluation	Notes	
CBDVA	<LOQ	<LOQ	0.007	%	NA < 20	Acceptable	
CBDV	0.066	0.069	7	%	0.115 < 20	Acceptable	
CBE	<LOQ	<LOQ	0.007	%	NA < 20	Acceptable	
CBD	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
CBDVA	<LOQ	<LOQ	0.007	%	NA < 20	Acceptable	
CBD	0.679	0.680	7	%	NA < 20	Acceptable	
CBD	94.6	95.4	0.007	%	0.117 < 20	Acceptable	
THCV	0.159	0.164	7	%	0.924 < 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.007	%	3.22 < 20	Acceptable	
THCVA	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
THCVA	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
CBN	0.0259	0.0261	0.007	%	0.839 < 20	Acceptable	
exo-THC	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
9THC	<LOQ	<LOQ	0.007	%	NA < 20	Acceptable	
8THC	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
CB1	<LOQ	<LOQ	0.007	%	NA < 20	Acceptable	
11THC	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
CB1	<LOQ	<LOQ	0.007	%	NA < 20	Acceptable	
THCA	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
THCA	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
CBGA	<LOQ	<LOQ	0.007	%	NA < 20	Acceptable	
CBGA	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
CBLA	<LOQ	<LOQ	0.007	%	NA < 20	Acceptable	
CBT	<LOQ	<LOQ	7	%	NA < 20	Acceptable	
			0.007				

Abbreviations

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

Units of Measure:

0.007
7
0.007
7
0.007
7
0.007
7
0.007
7
0.007
7
0.007
7
0.007
7
0.007
7



Revision: 1 Document ID: 7086
Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA 5035 Batch ID: 2208520

Method Blank			Laboratory Control Sample				
Analyte Result	LOQ	Notes	Result	LCS Units	% Rec	Limits	Notes
a-pinene	<LO	<200	51	50	µg/	103	7 - 13
Camphene	Q	<200	3	0	g	%	0 - 0
Sabinene	<LO	<200	53	50	µg/	107	7 - 13
b-Pinene	Q	<200	4	0	g	%	0 - 0
b-Myrcene	<LO	<200	53	50	µg/	106	7 - 13
a-phellandrene	Q	<200	2	0	g	%	0 - 0
α-3-Carene	<LO	<200	52	50	µg/	106	7 - 13
a-Terpinene	Q	<200	9	0	g	%	0 - 0
p-Cymene	<LO	<200	53	50	µg/	107	7 - 13
D-Limonene	Q	<200	6	0	g	%	0 - 0
Eucalyptol	<LO	<200	53	50	µg/	107	7 - 13
b-cis-Ocimene	Q	<67	3	0	g	%	0 - 0
b-trans-Ocimene	<LO	<133	56	50	µg/	113	7 - 13
g-Terpinene	Q	<200	5	0	g	%	0 - 0
Sabinene_Hydrate	<LO	<200	50	50	µg/	101	7 - 13
Terpinolene	Q	<200	4	0	g	%	0 - 0
D-Fenchone	<LO	<200	51	50	µg/	103	7 - 13
Linalool	Q	<200	5	0	g	%	0 - 0
Fenchol	<LO	<200	51	50	µg/	102	7 - 13
Camphor	Q	<200	0	0	g	%	0 - 0
Isopulego	<LO	<200	52	50	µg/	105	7 - 13
Isoborneol	Q	<200	5	0	g	%	0 - 0
Borneol	<LO	<200	17	16	µg/	107	7 - 13
DL-Menthol	Q	<200	8	7	g	%	0 - 0
Terpineol	<LO	<200	38	33	µg/	116	7 - 13
Nerol	Q	<200	6	3	g	%	0 - 0
Putegone	<LO	<200	53	50	µg/	106	7 - 13
Geraniol	Q	<200	0	0	g	%	0 - 0
Geranyl_Acetate	<LO	<200	51	50	µg/	104	7 - 13
a-Cedrene	Q	<200	9	0	g	%	0 - 0
b-Caryophytene	<LO	<200	52	50	µg/	106	7 - 13
a-Humulene	Q	<200	9	0	g	%	0 - 0
Valenene	<LO	<200	50	50	µg/	101	7 - 13
cis-Nerolidol	Q	<200	4	0	g	%	0 - 0
α-Farnesene	<LO	<200	60	50	µg/	121	7 - 13 Q1
trans-Nerolidol	Q	<200	3	0	g	%	0 - 0
Caryophytene_Oxide	<LO	<200	53	50	µg/	107	7 - 13
Guaiol	Q	<200	6	0	g	%	0 - 0
Cedrol	<LO	<200	52	50	µg/	106	7 - 13
α-Bisabolol	Q	<200	8	0	g	%	0 - 0

Definitions	LOQ	LCS	% REC	Q1	
Limit of Quantitation	54	50	µg/	109	7 13
Laboratory Control Sample	4	0	g	%	0 0
Percent Recovery	55	50	µg/	110	7 13
Quality control result biased high. Only non-detect samples reported.	2	0	g	%	0 0
	51	50	µg/	104	7 13
	9	0	g	%	0 0
	52	50	µg/	104	7 13
	2	0	g	%	0 0
	54	50	µg/	109	7 13
	6	0	g	%	0 0
	54	50	µg/	109	7 13
	7	0	g	%	0 0
	55	50	µg/	111	7 13
	6	0	g	%	0 0
	57	50	µg/	115	7 13
	6	0	g	%	0 0
	51	50	µg/	103	7 13
	3	0	g	%	0 0
	53	50	µg/	107	7 13
	6	0	g	%	0 0
	54	50	µg/	108	7 13
	2	0	g	%	0 0
	53	50	µg/	106	7 13
	0	0	g	%	0 0
	60	50	µg/	122	7 13
	8	0	g	%	0 0
	69	50	µg/	139	7 13
	3	0	g	%	0 0
	54	50	µg/	109	7 13
	7	0	g	%	0 0
	56	50	µg/	112	7 13
	0	0	g	%	0 0
	57	50	µg/	115	7 13
	3	0	g	%	0 0
	57	50	µg/	116	7 13
	8	0	g	%	0 0



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

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Report Date: 011796/D011.R000
ORELAP#: 10/07/2022
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Received: 09/30/22 10:16



Revision: 1 Document ID: 7086
 Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA 5035		Batch ID: 2208520	
Sample/Sample Duplicate		Sample ID:22-011796-0021	
Analyte Result	Org. Result	LOQ	Units% RPDLIMIT
			Notes
a-pinene	1430	1370	192 µg/ 4% <20
Camphene	<LOQ	<LOQ	192 g 0% <20
Sabinene	<LOQ	<LOQ	192 µg/ 0% <20
b-Pinene	8690	8420	192 g 3% <20
b-Myrcene	1860	1790	192 µg/ 4% <20
a-phellandrene	<LOQ	<LOQ	192 g 0% <20
d-3-Carene	<LOQ	<LOQ	192 µg/ 0% <20
a-Terpinene	<LOQ	<LOQ	192 g 0% <20
p-Cymene	<LOQ	<LOQ	192 µg/ 0% <20
D-Limonene	9030	8640	192 g 4% <20
Eucalyptol	<LOQ	<LOQ	192 µg/ 0% <20
b-cis-Ocimene	89	93	64. g 5% <20
b-trans-Ocimene	<LOQ	<LOQ	1 µg/ 0% <20
g-Terpinene	<LOQ	<LOQ	128 g 0% <20
Sabinene_Hydrate	<LOQ	<LOQ	192 µg/ 0% <20
Terpinolene	<LOQ	<LOQ	192 g 0% <20
D-Fenchone	<LOQ	<LOQ	192 µg/ 0% <20
Linalool	2960	2870	192 g 3% <20
Fenchol	<LOQ	<LOQ	192 µg/ 0% <20
Camphor	<LOQ	<LOQ	192 g 0% <20
Isopulego	<LOQ	<LOQ	192 µg/ 0% <20
Isoborneol	<LOQ	<LOQ	192 g 0% <20
Borneol	<LOQ	<LOQ	192 µg/ 0% <20
DL-Menthol	<LOQ	<LOQ	192 g 0% <20
Terpineol	<LOQ	<LOQ	192 µg/ 0% <20
Nerol	<LOQ	<LOQ	192 g 0% <20
Putegone	<LOQ	<LOQ	192 µg/ 0% <20
Geraniol	<LOQ	<LOQ	192 g 0% <20
Geranyl_Acetate	<LOQ	<LOQ	192 µg/ 0% <20
a-Cedrene	<LOQ	<LOQ	192 g 0% <20
b-Caryophyllene	13800	13300	192 µg/ 4% <20
a-Humulene	6030	5850	192 g 3% <20
Vatene	<LOQ	<LOQ	192 µg/ 0% <20
cis-Nerolidol	<LOQ	<LOQ	192 g 0% <20
a-Farnesene	<LOQ	<LOQ	192 µg/ 0% <20
trans-Nerolidol	<LOQ	<LOQ	192 g 0% <20
Caryophyllene_Oxide	278	269	192 µg/ 3% <20
Guaiol	<LOQ	<LOQ	192 g 0% <20
Cedrol	<LOQ	<LOQ	192 µg/ 0% <20
a-Bisabolol	<LOQ	<LOQ	192 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.