

PharmLabs San Diego Certificate of Analysis

3421 Hancock St, Second Floor, San Diego, CA 92110 | License: C8-0000098-LIC
 ISO/IEC 17025:2017 Certification L17-427-1 | Accreditation #85368



Sample **Raw Botanics - 500mg CBD Pillow Mist #3**

Sample ID	SD230118-003 (60027)	Matrix	Edible/Tincture (Other Cannabis Good)
Tested for	Pacific Manufacturing and Design		
Sampled	-	Received	Jan 17, 2023
Analyses executed	CAN+	Unit Volume (mL)	30.0
		Reported NA	Density (g/mL) 1.08

CAN+ - Cannabinoids Analysis

Analyzed Jan 18, 2023 | Instrument HPLC-VWD | Method SOP-001
 Measurement Uncertainty at 95% confidence 7.806%

Analyte	LOD mg/g	LOQ mg/g	Result %	Result mg/mL	Result mg/Unit	Sample photography
Cannabidiol (CBD)	0.039	0.16	ND	ND	ND	
Cannabidiol Acid (CBDA)	0.001	0.16	ND	ND	ND	
Cannabigerol Acid (CBGA)	0.001	0.16	ND	ND	ND	
Cannabigerol (CBG)	0.001	0.16	ND	ND	ND	
Cannabidiol (CBD)	0.001	0.16	1.32	14.25	427.36	
Tetrahydrocannabinol (THCV)	0.001	0.16	ND	ND	ND	
Cannabinol (CBN)	0.001	0.16	ND	ND	ND	
Tetrahydrocannabinol (Δ9-THC)	0.003	0.16	ND	ND	ND	
Δ8-tetrahydrocannabinol (Δ8-THC)	0.004	0.16	ND	ND	ND	
Cannabicyclol (CBL)	0.002	0.16	ND	ND	ND	
Cannabichromene (CBC)	0.002	0.16	ND	ND	ND	
Tetrahydrocannabinolic Acid (THCA)	0.001	0.16	ND	ND	ND	
Total THC (THCa + Δ9THC)			ND	ND	ND	
Total THC + Δ8THC (THCa + 0.877 + Δ9THC + Δ8THC)			ND	ND	ND	
Total CBD (CBDA + 0.877 + CBD)			1.32	13.19	427.36	
Total CBG (CBGa + 0.877 + CBG)			ND	ND	ND	
Total Cannabinoids			1.32	13.19	427.36	

UI Not Identified
 ND Not Detected
 N/A Not Applicable
 NT Not Reported
 LOD Limit of Detection
 LOQ Limit of Quantification
 <LOQ Detected
 >ULOL Above upper limit of linearity
 CFU/g Colony Forming Units per 1 gram
 TNTC Too Numerous to Count



Scan the QR code to verify authenticity.

This Certificate of Analysis has not been finalized and it represents a draft until electronically signed by:

Brandon Starr, Lab Manager

PharmLabs San Diego | 3421 Hancock St, Second Floor, San Diego, CA 92110 | 619.356.0898 | ISO/IEC 17025:2017 Certification L17-427-1

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

Report Number: 23-000713/D003.R000
Report Date: 01/26/2023 OR10002
ORELAP#:
Purchase Order: 01/17/23 14:39
Received:

Customer: Raw Botanicals LLC
Product identity: Raw Botanicals Pillow Mist
Client/Metric ID: .
Laboratory ID: 23-000713-0001

Summary

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
Linalool	0.430	86.35%	Eucalyptol	0.0445	8.94%
(R)-(+)-Limonene	0.0234	4.70%	Total Terpenes	0.498	100.00%

Metals:

All analytes passing and less than LOQ.

Microbiology:

All analytes passing and less than LOQ.



12423 NE Whitaker Way
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Report Number: 23-000713/D003.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:39

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2300582	01/21/23 AOAC 990.12 (Petrifilm)	pass	
E.coli	< LOQ		cfu/g	10	2300580	01/21/23 AOAC 991.14 (Petrifilm)	pass	
Total Coliforms	< LOQ		cfu/g	10	2300580	01/21/23 AOAC 991.14 (Petrifilm)	pass	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2300581	01/22/23 AOAC 2014.05 (RAPID)	pass	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2300581	01/22/23 AOAC 2014.05 (RAPID)	pass	

Pesticides Method: AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2300733 Analyze 01/24/23 02:09 PM

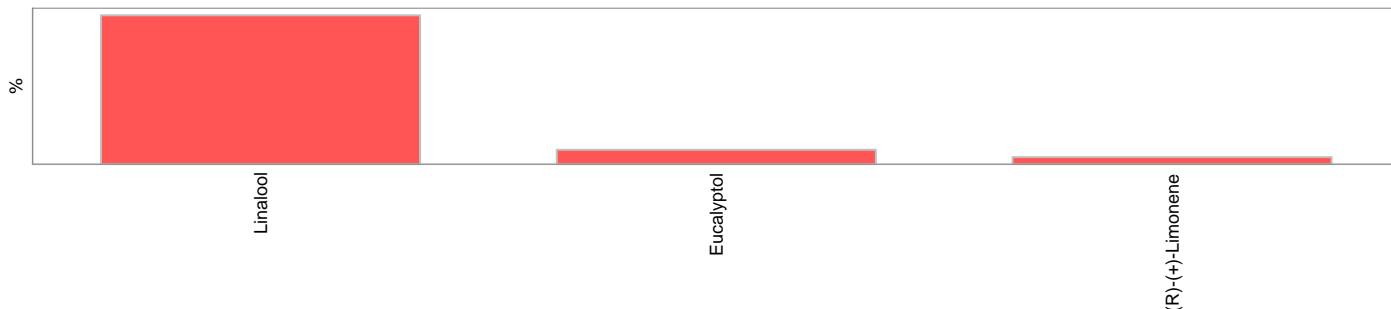
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.300	0.100	pass		Acephate	< LOQ	5.00	0.100	pass	
Acequinocyl	< LOQ	4.00	0.100	pass		Acetamiprid	< LOQ	5.00	0.100	pass	
Aldicarb	< LOQ	0.100	0.100	pass		Azoxystrobin	< LOQ	40.0	0.100	pass	
Bifenazate	< LOQ	5.00	0.100	pass		Bifenthrin	< LOQ	0.500	3.00	pass	
Boscalid	< LOQ	10.0	0.100	pass		Captan	< LOQ	5.00	0.700	pass	
Carbaryl	< LOQ	0.500	0.500	pass		Carbofuran	< LOQ	0.100	0.100	pass	
Chlorantraniliprole	< LOQ	40.0	3.00	pass		Chlordane	< LOQ	0.1	0.100	pass	
Chlorfenapyr	< LOQ	0.100	0.100	pass		Chlorpyrifos	< LOQ	0.100	0.100	pass	
Clofentezine	< LOQ	0.500	0.100	pass		Coumaphos	< LOQ	0.100	0.100	pass	
Cyfluthrin	< LOQ	1.00	2.00	pass		Cypermethrin	< LOQ	1.00	1.00	pass	
Daminozide	< LOQ	0.100	0.100	pass		Diazinon	< LOQ	0.200	0.100	pass	
Dichlorvos	< LOQ	0.100	0.100	pass		Dimethoate	< LOQ	0.100	0.100	pass	
Dimethomorph	< LOQ	20.0	2.00	pass		Ethoprophos	< LOQ	0.100	0.100	pass	
Etofenprox	< LOQ	0.100	0.100	pass		Etoxazole	< LOQ	1.50	0.100	pass	
Fenhexamid	< LOQ	10.0	0.100	pass		Fenoxycarb	< LOQ	0.100	0.100	pass	
Fenpyroximate	< LOQ	2.00	0.100	pass		Fipronil	< LOQ	0.100	0.100	pass	
Fonicamid	< LOQ	2.00	0.100	pass		Fludioxonil	< LOQ	30.0	0.100	pass	
Hexythiazox	< LOQ	2.00	0.100	pass		Imazalil	< LOQ	0.100	0.100	pass	
Imidacloprid	< LOQ	3.00	3.00	pass		Kresoxim-methyl	< LOQ	1.00	0.100	pass	
Malathion	< LOQ	5.00	0.500	pass		Metalaxyl	< LOQ	15.0	2.00	pass	
Methiocarb	< LOQ	0.100	0.100	pass		Methomyl	< LOQ	0.100	1.00	pass	
Mevinphos	< LOQ	0.100	0.100	pass		Myclobutanil	< LOQ	9.00	0.100	pass	
Naled	< LOQ	0.500	0.100	pass		Oxamyl	< LOQ	0.200	0.500	pass	
Paclobutrazole	< LOQ	0.100	0.100	pass		Parathion-Methyl	< LOQ	0.100	0.100	pass	
Permethrin	< LOQ	20.0	0.500	pass		Phosmet	< LOQ	0.200	0.100	pass	
Piperonyl butoxide	< LOQ	8.00	3.00	pass		Prallethrin	< LOQ	0.400	0.100	pass	
Propiconazole	< LOQ	20.0	0.100	pass		Propoxur	< LOQ	0.100	0.100	pass	
Pyrethrins (total)	< LOQ	1.00	0.500	pass		Pyridaben	< LOQ	3.00	0.100	pass	
Quintozene	< LOQ	0.200	0.100	pass		Spinetoram	< LOQ	3.00	0.100	pass	
Spinosad	< LOQ	3.00	0.100	pass		Spiromesifen	< LOQ	12.0	0.100	pass	
Spirotetramat	< LOQ	13.0	0.100	pass		Spiroxamine	< LOQ	0.100	0.100	pass	
Tebuconazole	< LOQ	2.00	0.100	pass		Thiacloprid	< LOQ	0.100	0.100	pass	
Thiamethoxam	< LOQ	4.50	3.00	pass		Trifloxystrobin	< LOQ	30.0	0.100	pass	



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Received: 01/17/23 14:39

Terpenes				Method: J AOAC 2015 V98-6	Units %	Batch 2300710	Analyze 01/23/23 06:52 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
Linalool	0.430	0.019	86.345%		Eucalyptol	0.0445	0.019	8.9357%	
(R)-(+)-Limonene	0.0234	0.019	4.6988%		p-Cymene	< LOQ	0.019	0.00%	
farnesene	< LOQ	0.019	0.00%		(±)-Camphor	< LOQ	0.019	0.00%	
a-cedrene	< LOQ	0.019	0.00%		(-)-Isopulegol	< LOQ	0.019	0.00%	
(-)-a-Terpineol	< LOQ	0.019	0.00%		β-Caryophyllene	< LOQ	0.019	0.00%	
valencene	< LOQ	0.019	0.00%		Geraniol	< LOQ	0.019	0.00%	
(±)-fenchone	< LOQ	0.019	0.00%		Menthol	< LOQ	0.019	0.00%	
(+)-Borneol	< LOQ	0.019	0.00%		a-Bisabolol	< LOQ	0.019	0.00%	
(±)-trans-Nerolidol	< LOQ	0.019	0.00%		Sabinene hydrate	< LOQ	0.019	0.00%	
Humulene	< LOQ	0.019	0.00%		trans-β-Ocimene	< LOQ	0.012	0.00%	
Geranyl acetate	< LOQ	0.019	0.00%		Isoborneol	< LOQ	0.019	0.00%	
gamma-Terpinene	< LOQ	0.019	0.00%		(±)-cis-Nerolidol	< LOQ	0.019	0.00%	
(-)-caryophyllene oxide	< LOQ	0.019	0.00%		(-)-Guaiol	< LOQ	0.019	0.00%	
(-)-β-Pinene	< LOQ	0.019	0.00%		(+)-Cedrol	< LOQ	0.019	0.00%	
(+)-fenchol	< LOQ	0.019	0.00%		(+)-Pulegone	< LOQ	0.019	0.00%	
a-phellandrene	< LOQ	0.019	0.00%		a-pinene	< LOQ	0.019	0.00%	
a-Terpinene	< LOQ	0.019	0.00%		Camphene	< LOQ	0.019	0.00%	
cis-β-Ocimene	< LOQ	0.006	0.00%		d-3-Carene	< LOQ	0.019	0.00%	
nerol	< LOQ	0.019	0.00%		Sabinene	< LOQ	0.019	0.00%	
β-Myrcene	< LOQ	0.019	0.00%		Terpinolene	< LOQ	0.019	0.00%	
Total Terpenes	0.498								



Individual Analyses

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Glyphosate	< LOQ		mg/kg	0.0500	2300692	01/23/23 QuPPE-method, EURL-SRM, Version 7, Dec 2012	pass	

Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ	0.20	mg/kg	0.0991	2300807	01/26/23 AOAC 2013.06 (mod.)	pass	
Cadmium	< LOQ	0.20	mg/kg	0.0991	2300807	01/26/23 AOAC 2013.06 (mod.)	pass	
Lead	< LOQ	0.50	mg/kg	0.0991	2300807	01/26/23 AOAC 2013.06 (mod.)	pass	
Mercury	< LOQ	0.10	mg/kg	0.0495	2300807	01/26/23 AOAC 2013.06 (mod.)	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.

* = TNI accredited analyte.

Units of Measure

cfu/g = Colony forming units per gram

g = g

g/ml = Gram per milliliter

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

mg/1ml = Milligram per 1ml

% = Percentage of sample

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

Approved Signatory

Derrick Tanner
General Manager



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Hemp & Cannabis: Usable / Extract / Finished Product
Chain of Custody, Record

Raw-Botanic-LLC-
1673475461

ORELAP ID: **OR1000028** ANAB ISO 17025 ID: **AT1508**

Contact Information Company: <u>Raw Botanic LLC</u> Contact: <u>Brendan Smith</u> Street Address: <u>1013 Clipper Court</u> City, State, Zip: <u>Del Mar, California 92014</u> Email: <u>brendan@rawbotanics.com</u> Contact Phone: <u>9148447490</u> Company Phone: <u>9148447490</u> Billing Information Billing Phone: <u>9148447490</u> Billing Email: <u>brendan@rawbotanics.com</u>	Project Information Project Name: <u>Raw Botanic Pillow Mist</u> PO Number: <u>NA</u> Turnaround Time: <u>5 Business Days (Standard)</u> , (required for microbial testing) Samples Delivered to Laboratory: <u>By Shipping Service (USPS, UPS, Fedex)</u>	Testing							
		Glyphosate	Heavy Metals	M1010 Micro Profile D	Pesticide - CA Profile	Potency Cannabinoid Basic Profile	Terpenes		
#	Sample Name	Matrix	Amount Provided	Reporting Unit					
1	Raw Botanic Pillow Mist	Topical	30 ml	mg/volume (mg/ml, mg/fl.oz)	✓	✓	✓	✓	✓

Relinquished By	Date	Time	Received By	Received Temp., °C	Evidence of Cooling?	Date	Time
<i>Brendan Smith</i>	<i>1/17/2023</i>	<i>14:18</i>	<i>ndc</i>	<i>18.5</i>	<i>No</i>	<i>1/18/2023</i>	<i>09:30</i>

Samples submitted to Columbia Laboratories with testing requirements constitute an agreement for services in accordance with the [current terms of services](#) associated with this COC. By signing "Relinquished By" you are agreeing to these terms.

Columbia Laboratories
12423 NE Whitaker Way
Portland, OR 97230

P: (503) 254-1794 | Fax: (503) 254-1452
info@columbiaboratories.com

Page 1 of 1
www.columbiaboratories.com



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

Report Number: 23-000713/D003.R000
Report Date: 01/26/2023
ORELAP#: OR100028
Purchase Order:
Received: 01/17/23 14:39

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

Terpenes Quality Control Results

Method Reference: EPA5035				Batch ID: 2300710					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS% Rec	Limits	Notes
a-pinene	<LOQ	< 200		487	500	µg/g	97%	70 - 130	
Camphene	<LOQ	< 200		483	500	µg/g	97%	70 - 130	
Sabinene	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
b-Pinene	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
b-Myrcene	<LOQ	< 200		483	500	µg/g	97%	70 - 130	
a-phellandrene	<LOQ	< 200		501	500	µg/g	100%	70 - 130	
d-3-Carene	<LOQ	< 200		496	500	µg/g	99%	70 - 130	
a-Terpinene	<LOQ	< 200		493	500	µg/g	99%	70 - 130	
p-Cymene	<LOQ	< 200		483	500	µg/g	97%	70 - 130	
D-Limonene	<LOQ	< 200		491	500	µg/g	98%	70 - 130	
Eucalyptol	<LOQ	< 200		473	500	µg/g	95%	70 - 130	
b-cis-Cimene	<LOQ	< 67		162	167	µg/g	97%	70 - 130	
b-trans-Cimene	<LOQ	< 133		333	333	µg/g	100%	70 - 130	
g-Terpinene	<LOQ	< 200		484	500	µg/g	97%	70 - 130	
Sabinene Hydrate	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
Terpinolene	<LOQ	< 200		483	500	µg/g	97%	70 - 130	
D-Fenchone	<LOQ	< 200		477	500	µg/g	95%	70 - 130	
Linalool	<LOQ	< 200		488	500	µg/g	98%	70 - 130	
Fenchol	<LOQ	< 200		479	500	µg/g	96%	70 - 130	
Camphor	<LOQ	< 200		482	500	µg/g	96%	70 - 130	
Isopulego	<LOQ	< 200		506	500	µg/g	101%	70 - 130	
Isoborneol	<LOQ	< 200		485	500	µg/g	97%	70 - 130	
Borneol	<LOQ	< 200		475	500	µg/g	95%	70 - 130	
DL-Menthol	<LOQ	< 200		481	500	µg/g	96%	70 - 130	
Terpineol	<LOQ	< 200		503	500	µg/g	101%	70 - 130	
Nerd	<LOQ	< 200		462	500	µg/g	92%	70 - 130	
Pulegone	<LOQ	< 200		495	500	µg/g	99%	70 - 130	
Geraniol	<LOQ	< 200		492	500	µg/g	98%	70 - 130	
Geranyl_Acdate	<LOQ	< 200		490	500	µg/g	98%	70 - 130	
a-Cedrene	<LOQ	< 200		474	500	µg/g	95%	70 - 130	
b-Caryophyllene	<LOQ	< 200		487	500	µg/g	97%	70 - 130	
a-Humulene	<LOQ	< 200		485	500	µg/g	97%	70 - 130	
Valene	<LOQ	< 200		474	500	µg/g	95%	70 - 130	
cis-Nerolidol	<LOQ	< 200		486	500	µg/g	97%	70 - 130	
a-Farnesene	<LOQ	< 200		535	500	µg/g	107%	70 - 130	
trans-Nerolidol	<LOQ	< 200		490	500	µg/g	98%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		488	500	µg/g	98%	70 - 130	
Guaiol	<LOQ	< 200		488	500	µg/g	98%	70 - 130	
Cedrol	<LOQ	< 200		483	500	µg/g	97%	70 - 130	
a-Bisabolol	<LOQ	< 200		483	500	µg/g	97%	70 - 130	

Definitions

LOQ	Limit of Quantitation
LCS	Laboratory Control Sample
% REC	Percent Recovery



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Revision: 1 Document ID: 7086
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Terpenes Quality Control Results

Method Reference: EPA5035		Batch ID: 2300710					
Sample/ Sample Duplicate		Sample ID: 23-000713-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	193	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-phellandrene	<LOQ	<LOQ	193	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	193	µg/g	0%	< 20	
D-Limonene	201	234	193	µg/g	15%	< 20	
Eucalyptol	388	445	193	µg/g	14%	< 20	
b-cis-Cimene	<LOQ	<LOQ	642	µg/g	0%	< 20	
b-trans-Cimene	<LOQ	<LOQ	128	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	193	µg/g	0%	< 20	
Sabinene Hydrate	<LOQ	<LOQ	193	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	193	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	193	µg/g	0%	< 20	
Linalool	3850	4300	193	µg/g	11%	< 20	
Fenchol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	193	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	193	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	193	µg/g	0%	< 20	
DL-Menthhol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Nerd	<LOQ	<LOQ	193	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	193	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	193	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	193	µg/g	0%	< 20	
Valnene	<LOQ	<LOQ	193	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	193	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	193	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	193	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	193	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	193	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



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Purchase Order:
Received: 01/17/23 14:39



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

Report Number: 23-000713/D003.R000
Report Date: 01/26/2023
ORELAP#: OR100028
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Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	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.