



This is an amended version of report# 25-010567/D001.R000.

Reason: Additional Testing Performed

Customer: The Hemp Collect
 2014 SE 9th Ave
 Portland Oregon 97214
 United States of America (USA)

Product identity: Live D9, Sativa, Strawberry Rhubarb, Gummy, 20mg

Metric ID: 3029.2NC_090425

Material: Cannabinoid Edible

Laboratory ID: 25-010567-0001

Evidence of Cooling: No

Temp: 21.8 °C

Lot #: 3029.2NC_090425

Serving Size #1: 8 g



**THE HEMP
COLLECT**

Sample Results

Potency					Method: J AOAC 2015 V98-6 (mod) ^b			Batch: 2506503			Analyze: 09/09/25		
					Serving Size #1								
Analyte	Result	Units	LOQ	Notes	Result	Units	LOQ						
CBC	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
CBC-A	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
CBC-Total	< LOQ	%	0.0140		< LOQ	mg/8g	1.12						
CBD [±]	0.0226	%	0.0075		1.81	mg/8g	0.60						
CBD-A [±]	0.0129	%	0.0075		1.03	mg/8g	0.60						
CBD-Total [±]	0.0339	%	0.0140		2.71	mg/8g	1.12						
CBDV	0.0367	%	0.0075		2.94	mg/8g	0.60						
CBDV-A	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
CBDV-Total	0.0367	%	0.0140		2.94	mg/8g	1.12						
CBE	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
CBG	0.0585	%	0.0075		4.68	mg/8g	0.60						
CBG-A	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
CBG-Total	0.0585	%	0.0140		4.68	mg/8g	1.12						
CBL	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
CBL-A	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
CBL-Total	< LOQ	%	0.0140		< LOQ	mg/8g	1.12						
CBN	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
CBT	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
Δ10-THC-9R	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
Δ10-THC-9S	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
Δ10-THC-Total	< LOQ	%	0.0150		< LOQ	mg/8g	1.20						
Δ8-THC [±]	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
Δ8-THCV	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
Δ9-THC [±]	0.238	%	0.0075		19.1	mg/8g	0.60						
Δ9-THC-A [±]	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
Δ9-THC-Total [±]	0.238	%	0.0140		19.0	mg/8g	1.12						
Δ9-THCP	< LOQ	%	0.0075		< LOQ	mg/8g	0.60						
Δ9-THCV	0.0132	%	0.0075		1.06	mg/8g	0.60						



Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Batch: 2506503	Analyze: 09/09/25
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Analyte	Result	Units	LOQ	Notes	Serving Size #1	Result	Units	LOQ
Δ9-THCV-A	< LOQ	%	0.0075			< LOQ	mg/8g	0.60
Δ9-THCV-Total	< LOQ	%	0.0140			< LOQ	mg/8g	1.12
exo-THC	< LOQ	%	0.0075			< LOQ	mg/8g	0.60
Total Cannabinoids	0.382	%				30.6	mg/8g	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Salmonella spp. [±]	Negative		/15g		2506568	09/13/25 AOAC 2020.02 ^b		
EHEC including STEC [±]	Negative		/15g		2506569	09/13/25 AOAC 2020.06 ^b		

Solvents	Method: Residual Solvents by HS-GC-MS ^b	Units μg/g	Batch 2506685	Analyze: 09/16/25
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Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane [±]	< LOQ		100			2-Butanol [±]	< LOQ		200		
2-Ethoxyethanol [±]	< LOQ		30.0			2-Methylbutane (Isopentane) [±]	< LOQ		200		
2-Methylpentane [±]	< LOQ		30.0			2-Propanol (IPA) [±]	< LOQ		200		
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		200			Acetonitrile [±]	< LOQ		100		
Benzene [±]	< LOQ		1.00			Butanes (sum) [±]	< LOQ		400		
Cyclohexane [±]	< LOQ		200			Ethyl acetate [±]	< LOQ		200		
Ethyl benzene	< LOQ		200			Ethyl ether [±]	< LOQ		200		
Ethylene glycol [±]	< LOQ		200			Ethylene oxide [±]	< LOQ		20.0		
Hexanes (sum) [±]	< LOQ		150			Isopropyl acetate [±]	< LOQ		200		
Isopropylbenzene (Cumene) [±]	< LOQ		30.0			m,p-Xylene [±]	< LOQ		200		
Methanol [±]	< LOQ		200			Methylene chloride [±]	< LOQ		60.0		
Methylpropane (Isobutane) [±]	< LOQ		200			n-Butane [±]	< LOQ		200		
n-Heptane [±]	< LOQ		200			n-Hexane [±]	< LOQ		30.0		
n-Pentane [±]	< LOQ		200			o-Xylene [±]	< LOQ		200		
Pentanes (sum) [±]	< LOQ		600			Propane [±]	< LOQ		200		
Tetrahydrofuran [±]	< LOQ		100			Toluene [±]	< LOQ		100		
Total Xylenes [±]	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ		600		

Pesticides	Method: AOAC 2007.01 & EN 15662 (mod)	Units mg/kg	Batch 2506677	Analyze: 09/16/25
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Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [±]	< LOQ		0.250			Acephate [±]	< LOQ		0.200		
Acequinocyl [±]	< LOQ		1.00			Acetamiprid [±]	< LOQ		0.100		
Aldicarb [±]	< LOQ		0.200			Azoxystrobin [±]	< LOQ		0.100		
Bifenazate [±]	< LOQ		0.100			Bifenthrin [±]	< LOQ		0.100		
Boscalid [±]	< LOQ		0.200			Carbaryl [±]	< LOQ		0.100		
Carbofuran [±]	< LOQ		0.100			Chlorantraniliprole [±]	< LOQ		0.100		
Chlorfenapyr [±]	< LOQ		0.500			Chlorpyrifos-ethyl [±]	< LOQ		0.100		
Clofentezine [±]	< LOQ		0.100			Cyfluthrin (sum) [±]	< LOQ		0.500		
Cypermethrin (sum) [±]	< LOQ		0.500			Daminozide [±]	< LOQ		0.500		



Pesticides					Method: AOAC 2007.01 & EN 15662 (mod)	Units mg/kg	Batch 2506677	Analyze: 09/16/25			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Diazinon [±]	< LOQ		0.100			Dichlorvos [±]	< LOQ		0.500		
Dimethoate [±]	< LOQ		0.100			Ethoprophos [±]	< LOQ		0.100		
Etofenprox [±]	< LOQ		0.200			Etoxazole [±]	< LOQ		0.100		
Fenoxycarb [±]	< LOQ		0.100			Fenpyroximate [±]	< LOQ		0.200		
Fipronil [±]	< LOQ		0.200			Flonicamid [±]	< LOQ		0.400		
Fludioxonil [±]	< LOQ		0.200			Hexythiazox [±]	< LOQ		0.400		
Imazalil [±]	< LOQ		0.100			Imidacloprid [±]	< LOQ		0.200		
Kresoxim-methyl [±]	< LOQ		0.200			Malathion [±]	< LOQ		0.100		
Metalaxyl [±]	< LOQ		0.100			Methiocarb [±]	< LOQ		0.100		
Methomyl [±]	< LOQ		0.200			MGK-264 [±]	< LOQ		0.100		
Myclobutanil [±]	< LOQ		0.100			Naled [±]	< LOQ		0.250		
Oxamyl [±]	< LOQ		0.500			Paclobutrazole [±]	< LOQ		0.200		
Parathion-methyl [±]	< LOQ		0.100			Permethrin [±]	< LOQ		0.100		
Phosmet [±]	< LOQ		0.100			Piperonyl butoxide [±]	< LOQ		1.00		
Prallethrin [±]	< LOQ		0.100			Propiconazole [±]	< LOQ		0.200		
Propoxur [±]	< LOQ		0.100			Pyrethrin I (total) [±]	< LOQ		0.500		
Pyridaben [±]	< LOQ		0.100			Spinosad [±]	< LOQ		0.100		
Spiromesifen [±]	< LOQ		0.100			Spirotetramat [±]	< LOQ		0.100		
Spiroxamine [±]	< LOQ		0.200			Tebuconazole [±]	< LOQ		0.200		
Thiacloprid [±]	< LOQ		0.100			Thiamethoxam [±]	< LOQ		0.100		
Trifloxystrobin [±]	< LOQ		0.100								

Terpenes					Method: J AOAC 2015 V98-6 ^b	Units %	Batch 2506788	Analyze: 09/18/25		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes	
nerol	< LOQ	0.019	0.00%		(+)-Pulegone	< LOQ	0.019	0.00%		
(±)-cis-Nerolidol	< LOQ	0.019	0.00%		Menthol	< LOQ	0.019	0.00%		
p-Cymene	< LOQ	0.019	0.00%		gamma-Terpinene	< LOQ	0.019	0.00%		
trans-β-Ocimene	< LOQ	0.013	0.00%		α-phellandrene	< LOQ	0.019	0.00%		
valencene	< LOQ	0.019	0.00%		β-Caryophyllene	< LOQ	0.019	0.00%		
α-cedrene	< LOQ	0.019	0.00%		α-Bisabolol	< LOQ	0.019	0.00%		
(-)-Guaiol	< LOQ	0.019	0.00%		Humulene	< LOQ	0.019	0.00%		
(+)-Cedrol	< LOQ	0.019	0.00%		(-)-α-Terpineol	< LOQ	0.019	0.00%		
(-)-caryophyllene oxide	< LOQ	0.019	0.00%		(-)-Isopulegol	< LOQ	0.019	0.00%		
(-)-β-Pinene	< LOQ	0.019	0.00%		(+)-Borneol	< LOQ	0.019	0.00%		
(+)-fenchol	< LOQ	0.019	0.00%		(±)-Camphor	< LOQ	0.019	0.00%		
(±)-fenchone	< LOQ	0.019	0.00%		(±)-trans-Nerolidol	< LOQ	0.019	0.00%		
(R)-(+)-Limonene	< LOQ	0.019	0.00%		α-pinene	< LOQ	0.019	0.00%		
α-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%		
Eucalyptol	< LOQ	0.019	0.00%		farnesene	< LOQ	0.019	0.00%		
Geraniol	< LOQ	0.019	0.00%		Geranyl acetate	< LOQ	0.019	0.00%		
Isoborneol	< LOQ	0.019	0.00%		Linalool	< LOQ	0.019	0.00%		
Sabinene	< LOQ	0.019	0.00%		Sabinene hydrate	< LOQ	0.019	0.00%		
β-Myrcene	< LOQ	0.019	0.00%		Terpinolene	< LOQ	0.019	0.00%		
Total Terpenes	< LOQ									



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [±]	< LOQ		mg/kg	0.0155	2506684	09/16/25 AOAC 2013.06 (mod.) ^b		
Cadmium [±]	< LOQ		mg/kg	0.0155	2506684	09/16/25 AOAC 2013.06 (mod.) ^b		
Lead [±]	< LOQ		mg/kg	0.0155	2506684	09/16/25 AOAC 2013.06 (mod.) ^b		
Mercury [±]	< LOQ		mg/kg	0.00774	2506684	09/16/25 AOAC 2013.06 (mod.) ^b		

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B1 [±]	< LOQ		µg/kg	5.00	2506665	09/16/25 Mycotoxins by AOAC 2007.01		
Aflatoxin B2 [±]	< LOQ		µg/kg	5.00	2506665	09/16/25 Mycotoxins by AOAC 2007.01		
Aflatoxin G1 [±]	< LOQ		µg/kg	5.00	2506665	09/16/25 Mycotoxins by AOAC 2007.01		
Aflatoxin G2 [±]	< LOQ		µg/kg	5.00	2506665	09/16/25 Mycotoxins by AOAC 2007.01		
Ochratoxin A	< LOQ		µg/kg	5.00	2506665	09/16/25 Mycotoxins by AOAC 2007.01 ^b		
Total Aflatoxins	< LOQ		µg/kg	20.0		09/19/25 Mycotoxins by AOAC 2007.01 ^b		



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

/15g = Per 15g

µg/g = Microgram per gram

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

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

% = Percentage of sample

mg/8g = Milligram per 8g

% wt = µg/g divided by 10,000



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



Report Number: 25-010567/D001.R001
Report Date: 09/19/2025
ORELAP#: OR100028
Purchase Order:
Received: 09/08/25 10:15



**Hemp & Cannabis
Chain of Custody**

**The-Hemp-Collect-
1757013178**

Company Details Company: <u>The Hemp Collect</u> Contact: <u>Brooke McKenzie</u> Street Address: <u>2014 SE 9th Ave</u> City, State, Zip: <u>Portland, OR 97214</u> Email: <u>Coas@thehempcollect.com</u> Contact Phone: <u>7707220962</u> Billing Information Billing Email: <u>accounting@thehempcollect.com</u>					Project Details Turnaround Time: <u>3 Business Days</u> <u>Surcharges Apply</u> Relinquishment Sampling, Courier & Shipping Options: <u>By Shipping Service</u> (USPS, UPS, Fedex) Receipt Information Evidence of Cooling?: No Sample Condition: Damage Observed Prelog Storage: Canna Shelves				Testing
#	Sample Name	Lot Additional Sample ID	Material	Additional Test Requests and Sample Comments	METRC Sample Package ID	Specifications	Reporting Unit	Amount Provided	±
1	Live D9, Sativa, Strawberry Rhubarb, Gummy, 20mg	3029.2NC.090425	Cannabinoid Edible	After we review potency results, we will add additional testing to this sample to make it an Oregon full panel test. Thank you!	3029.2NC.090425	mg/8g unit	mg/g	64 g	✓

Relinquished By	Date	Time	Received By	Date	Time	Received Temp., °C	IR Therm. CL#
Brooke McKenzie	09/04/2025	12:12	ubs	09/08/2025	10:15	21.80	CL-1243

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
info@columbialaboratories.com

Page 1 of 1
www.columbialaboratories.com


Laboratory Quality Control Results
J AOAC 2015 V98-6 **Batch ID: 2506503**
Laboratory Control Sample

Analyte	LCS	Result	Spike	Units	% Rec	Limits	Evaluation	Notes
CBDVA	2	0.0279	0.0273	%	102	80.0 - 120	Acceptable	
CBDV	2	0.0285	0.0278	%	103	80.0 - 120	Acceptable	
CBE	2	0.0331	0.0315	%	105	80.0 - 120	Acceptable	
CBDA	1	0.0251	0.0253	%	99.3	90.0 - 110	Acceptable	
CBGA	1	0.0279	0.0287	%	97.1	80.0 - 120	Acceptable	
CBG	1	0.0254	0.0264	%	96.4	80.0 - 120	Acceptable	
CBD	1	0.0251	0.0260	%	96.7	90.0 - 110	Acceptable	
THCV	2	0.0302	0.0294	%	103	80.0 - 120	Acceptable	
d8THCV	2	0.0300	0.0297	%	101	80.0 - 120	Acceptable	
THCVA	2	0.0270	0.0263	%	103	80.0 - 120	Acceptable	
CBN	1	0.0264	0.0265	%	99.5	80.0 - 120	Acceptable	
exo-THC	2	0.0278	0.0271	%	103	80.0 - 120	Acceptable	
d9THC	1	0.0284	0.0277	%	102	90.0 - 110	Acceptable	
d8THC	1	0.0259	0.0275	%	94.4	90.0 - 110	Acceptable	
9S-d10THC	1	0.0289	0.0294	%	98.3	80.0 - 120	Acceptable	
CBL	2	0.0285	0.0276	%	103	80.0 - 120	Acceptable	
9R-d10THC	1	0.0286	0.0293	%	97.5	80.0 - 120	Acceptable	
CBC	2	0.0288	0.0287	%	100	80.0 - 120	Acceptable	
THCA	1	0.0303	0.0309	%	98.2	90.0 - 110	Acceptable	
CBCA	2	0.0283	0.0281	%	101	80.0 - 120	Acceptable	
CBLA	2	0.0296	0.0284	%	104	80.0 - 120	Acceptable	
d9THCP	2	0.0283	0.0275	%	103	80.0 - 120	Acceptable	
CBT	2	0.0292	0.0279	%	105	80.0 - 120	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBDV	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBE	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBDA	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBGA	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBG	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBD	<LOQ	0.00701	%	< 0.00701	Acceptable	
THCV	<LOQ	0.00701	%	< 0.00701	Acceptable	
d8THCV	<LOQ	0.00701	%	< 0.00701	Acceptable	
THCVA	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBN	<LOQ	0.00701	%	< 0.00701	Acceptable	
exo-THC	<LOQ	0.00701	%	< 0.00701	Acceptable	
d9THC	<LOQ	0.00701	%	< 0.00701	Acceptable	
d8THC	<LOQ	0.00701	%	< 0.00701	Acceptable	
9S-d10THC	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBL	<LOQ	0.00701	%	< 0.00701	Acceptable	
9R-d10THC	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBC	<LOQ	0.00701	%	< 0.00701	Acceptable	
THCA	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBCA	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBLA	<LOQ	0.00701	%	< 0.00701	Acceptable	
d9THCP	<LOQ	0.00701	%	< 0.00701	Acceptable	
CBT	<LOQ	0.00701	%	< 0.00701	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent


Laboratory Quality Control Results

J AOAC 2015 V98-6			Batch ID: 2506503					
Sample Duplicate			Sample ID: 25-010379-0001					
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
CBE	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
CBDA	<LOQ	<LOQ	0.00724	%	NA	< 10	Acceptable	
CBGA	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
CBG	0.0163	0.0179	0.00724	%	9.29	< 20	Acceptable	
CBD	0.566	0.560	0.00724	%	1.09	< 10	Acceptable	
THCV	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
d8THCV	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
THCVA	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
CBN	0.120	0.119	0.00724	%	0.777	< 20	Acceptable	
exo-THC	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
d9THC	<LOQ	<LOQ	0.00724	%	NA	< 10	Acceptable	
d8THC	<LOQ	<LOQ	0.00724	%	NA	< 10	Acceptable	
9S-d10THC	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
CBL	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
9R-d10THC	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
CBC	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
THCA	<LOQ	<LOQ	0.00724	%	NA	< 10	Acceptable	
CBCA	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
CBLA	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
d9THCP	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	
CBT	<LOQ	<LOQ	0.00724	%	NA	< 20	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent


Laboratory Quality Control Results

Residual Solvents				Batch ID: 2506685					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
1,1-Dichloroethane	ND	< 1		0.807	1	µg/g	80.7	50-150	
1,4-Dioxane	ND	< 100		493	496	µg/g	99.4	60-120	
1-Propanol	ND	< 500		1760	1620	µg/g	108.6	50-150	
2,2-Dimethylbutane	ND	< 30		171	172	µg/g	99.4	60-120	
2,2-Dimethylpropane	ND	< 200		601	956	µg/g	62.9	60-120	
2,3-Dimethylbutane	ND	< 30		165	173	µg/g	95.4	60-120	
2-Butanol	ND	< 200		1660	1610	µg/g	103.1	60-120	
2-Ethoxyethanol	ND	< 30		175	177	µg/g	98.9	60-120	
2-methyl-1-propanol	ND	< 500		1730	1610	µg/g	107.5	50-150	
2-Methylbutane	ND	< 200		1630	1630	µg/g	100.0	60-120	
2-Methylpentane	ND	< 30		161	164	µg/g	98.2	60-120	
2-Propanol	ND	< 200		1600	1610	µg/g	99.4	60-120	
3-Methylpentane	ND	< 30		178	183	µg/g	97.3	60-120	
Acetone	ND	< 200		1610	1620	µg/g	99.4	60-120	
Acetonitrile	ND	< 100		489	493	µg/g	99.2	60-120	
Benzene	ND	< 1		0.736	1	µg/g	73.6	50-150	
Butane	ND	< 200		505	769	µg/g	65.7	60-120	
Butyl Acetate	ND	< 500		1830	1620	µg/g	113.0	50-150	
Cumene	ND	< 30		164	174	µg/g	94.3	60-120	
Cyclohexane	ND	< 200		1580	1630	µg/g	96.9	60-120	
Dichloromethane	ND	< 1		0.819	1	µg/g	81.9	50-150	
DMSO	ND	< 500		1780	1620	µg/g	109.9	50-150	
Ethanol	ND	< 200		1680	1630	µg/g	103.1	60-120	
Ethyl acetate	ND	< 200		1590	1630	µg/g	97.5	60-120	
Ethyl Ether	ND	< 200		1630	1620	µg/g	100.6	60-120	
Ethyl Formate	ND	< 500		1420	1620	µg/g	87.7	50-150	
Ethylbenzene	ND	< 200		973	976	µg/g	99.7	60-120	
Ethylene Glycol	ND	< 200		414	484	µg/g	85.5	60-120	
Ethylene Oxide	ND	< 1		1.03	1	µg/g	103.0	50-150	
Heptane	ND	< 200		1640	1600	µg/g	102.5	60-120	
Hexane	ND	< 30		168	172	µg/g	97.7	60-120	
Isobutane	ND	< 200		491	770	µg/g	63.8	60-120	
Isopropyl Acetate	ND	< 200		1620	1610	µg/g	100.6	60-120	
m,p-Xylene	ND	< 200		987	988	µg/g	99.9	60-120	
Methanol	ND	< 200		1600	1650	µg/g	97.0	60-120	
Methyl Acetate	ND	< 500		1630	1620	µg/g	100.6	50-150	
Methylisobutylketone	ND	< 500		1820	1620	µg/g	112.3	50-150	
o-Xylene	ND	< 200		974	975	µg/g	99.9	60-120	
Pentane	ND	< 200		1590	1610	µg/g	98.8	60-120	
Propane	ND	< 200		363	585	µg/g	62.1	60-120	
Propyl Acetate	ND	< 500		1740	1600	µg/g	108.8	50-150	
Sulfolane	ND	< 50		162	165	µg/g	98.2	50-150	
Tetrahydrofuran	ND	< 100		472	486	µg/g	97.1	60-120	
Toluene	ND	< 100		481	485	µg/g	99.2	60-120	
Trichloroethylene	ND	< 1		0.696	1	µg/g	69.6	50-150	
Triethylamine	ND	< 500		1580	1620	µg/g	97.5	50-150	


QC - Sample Duplicate
Sample ID: 25-010736-0001

Analyte	SR Result	SD Result	LOQ	Units	RPD	Limits	Accept/Fail	Notes
1,1-Dichloroethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500	µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	1	µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200	µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Methylisobutylketone	ND	ND	500	µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Propane	ND	ND	200	µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500	µg/g	0.0	< 20	Acceptable	
Sulfolane	ND	ND	50	µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100	µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1	µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500	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


Terpenes Quality Control Results

Method Reference: EPA 5035					Batch ID: 2506788				
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 191		590	489	µg/g	121%	70 - 130	
Camphene	<LOQ	< 191		563	477	µg/g	118%	70 - 130	
Sabinene	<LOQ	< 191		456	489	µg/g	93%	70 - 130	
b-Pinene	<LOQ	< 191		477	489	µg/g	97%	70 - 130	
b-Myrcene	<LOQ	< 191		524	477	µg/g	110%	70 - 130	
a-phellandrene	<LOQ	< 191		552	477	µg/g	116%	70 - 130	
d-3-Carene	<LOQ	< 191		569	477	µg/g	119%	70 - 130	
a-Terpinene	<LOQ	< 191		445	489	µg/g	91%	70 - 130	
p-Cymene	<LOQ	< 191		573	477	µg/g	120%	70 - 130	
D-Limonene	<LOQ	< 191		449	489	µg/g	92%	70 - 130	
Eucalyptol	<LOQ	< 191		543	477	µg/g	114%	70 - 130	
b-cis-OCimene	<LOQ	< 64		168	163	µg/g	103%	70 - 130	
b-trans-OCimene	<LOQ	< 127		337	326	µg/g	103%	70 - 130	
g-Terpinene	<LOQ	< 191		424	489	µg/g	87%	70 - 130	
Sabinene_Hydrate	<LOQ	< 191		417	489	µg/g	85%	70 - 130	
Terpinolene	<LOQ	< 191		410	489	µg/g	84%	70 - 130	
D-Fenchone	<LOQ	< 191		485	489	µg/g	99%	70 - 130	
Linalool	<LOQ	< 191		548	477	µg/g	115%	70 - 130	
Fenchol	<LOQ	< 191		440	489	µg/g	90%	70 - 130	
Camphor	<LOQ	< 191		575	477	µg/g	120%	70 - 130	
Isopulego	<LOQ	< 191		532	477	µg/g	111%	70 - 130	
Isoborneol	<LOQ	< 191		539	477	µg/g	113%	70 - 130	
Borneol	<LOQ	< 191		420	489	µg/g	86%	70 - 130	
DL-Menthol	<LOQ	< 191		478	477	µg/g	100%	70 - 130	
Terpineol	<LOQ	< 191		376	489	µg/g	77%	70 - 130	
Nerol	<LOQ	< 191		381	477	µg/g	80%	70 - 130	
Pulegone	<LOQ	< 191		343	489	µg/g	70%	70 - 130	
Geraniol	<LOQ	< 191		358	489	µg/g	73%	70 - 130	
Geranyl_Acetate	<LOQ	< 191		452	477	µg/g	95%	70 - 130	
a-Cedrene	<LOQ	< 191		471	489	µg/g	96%	70 - 130	
b-Caryophyllene	<LOQ	< 191		570	477	µg/g	119%	70 - 130	
a-Humulene	<LOQ	< 191		479	489	µg/g	98%	70 - 130	
Valenene	<LOQ	< 191		552	477	µg/g	116%	70 - 130	
cis-Nerolidol	<LOQ	< 191		587	477	µg/g	123%	70 - 130	
a-Farnesene	<LOQ	< 191		543	477	µg/g	114%	70 - 130	
trans-Nerolidol	<LOQ	< 191		407	489	µg/g	83%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 191		557	477	µg/g	117%	70 - 130	
Guaiol	<LOQ	< 191		461	489	µg/g	94%	70 - 130	
Cedrol	<LOQ	< 191		572	477	µg/g	120%	70 - 130	
a-Bisabolol	<LOQ	< 191		547	477	µg/g	115%	70 - 130	

Definitions

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


Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2506788			
Sample/Sample Duplicate		Sample ID: 25-010567-0001					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	<LOQ	<LOQ	195	µg/g	0%	< 20	
Camphene	<LOQ	<LOQ	195	µg/g	0%	< 20	
Sabinene	<LOQ	<LOQ	195	µg/g	0%	< 20	
b-Pinene	<LOQ	<LOQ	195	µg/g	0%	< 20	
b-Myrcene	<LOQ	<LOQ	195	µg/g	0%	< 20	
a-phellllandrene	<LOQ	<LOQ	195	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	195	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	195	µg/g	0%	< 20	
p-Cymene	<LOQ	<LOQ	195	µg/g	0%	< 20	
D-Limonene	<LOQ	<LOQ	195	µg/g	0%	< 20	
Eucalyptol	<LOQ	<LOQ	195	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	65.0	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	130	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	195	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	195	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	195	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	195	µg/g	0%	< 20	
Linalool	<LOQ	<LOQ	195	µg/g	0%	< 20	
Fenchol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	195	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	195	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	195	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Terpineol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Nerol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	195	µg/g	0%	< 20	
Gereniol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	195	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	195	µg/g	0%	< 20	
b-Caryophyllene	<LOQ	<LOQ	195	µg/g	0%	< 20	
a-Humulene	<LOQ	<LOQ	195	µg/g	0%	< 20	
Valenene	<LOQ	<LOQ	195	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	195	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	195	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	195	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	195	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	195	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	195	µg/g	0%	< 20	

Definitions

RPD

Relative Percent Difference



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



Report Number: 25-010567/D001.R001
Report Date: 09/19/2025
ORELAP#: OR100028
Purchase Order:
Received: 09/08/25 10:15





Explanation of QC Flag Comments:

Code	Explanation
A	This analysis was performed on a VOA sample containing headspace.
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.
B3	Dilution water blank of BOD was above the recommended limit; associated samples could be high biased.
CP	Client provided value.
CV	Calculated value.
E	Analyte concentration exceeds the calibration range, results are estimated.
E1	Estimated value.
E2	Estimated value. Matrix interference observed.
H	Holding time was exceeded.
J	Estimated value, above the detection limit and below the LOQ
I	Insufficient sample received to meet method requirements.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitation level raised due to matrix interference.
LOQ3	< LOQ could be due to potential inhibition.
N1	See case narrative
P	Not preserved to the proper pH
P1	Storage temperature out of control
P2	Incubator temperature out of control
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.
Q7	Quality control outside QC limits.
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.
RE	Re-extracted and/or re-analyzed.
REH	The original analysis was within holding time; re-analysis past holding time.
S	Surrogate recovery outside control limit.
T	Tentatively Identified Compound (TIC) by library search.
T1	Confirmed by secondary ion
W	Results are reported on dry weight basis.