



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



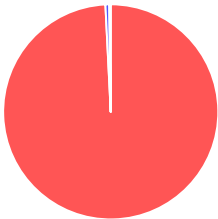
Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

This is an amended version of report# 22-006203/D003.R000.
Reason: Combine results with report 22-006021/D003.R000.

Customer: Oregon Custom Supply
Product identity: LPC-051722-01N
Manufactured Date: 5/22/2022
Retest Date: 5/22/2024
Laboratory ID: 22-006203-0002

Summary

Potency:

Analyte	Result (%)	 • Δ8-THC • Δ8-THCV • CBT		
Δ8-THC	73.4		CBD-Total	<LOQ
Δ8-THCV	0.422		THC-Total	<LOQ
CBT [†]	0.163		(Reported in percent of total sample)	

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
(R)-(+)-Limonene [†]	3.84	39.43%	β-Myrcene [†]	2.30	23.61%
β-Caryophyllene [†]	1.03	10.57%	Linalool [†]	0.848	8.71%
α-pinene [†]	0.543	5.57%	(-)-β-Pinene [†]	0.343	3.52%
Humulene [†]	0.290	2.98%	Camphene [†]	0.169	1.74%
(+)-fenchol [†]	0.125	1.28%	Terpinolene [†]	0.0770	0.79%
(-)-α-Terpineol [†]	0.0587	0.60%	valencene [†]	0.0385	0.40%
d-3-Carene [†]	0.0231	0.24%	α-Terpinene [†]	0.0224	0.23%
(-)-caryophyllene oxide [†]	0.0204	0.21%	cis-β-Ocimene [†]	0.0168	0.17%
Total Terpenes[†]	9.74	100.00%			

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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



Report Number: 22-006021/D003.R000
Report Date: 05/26/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/24/22 12:11

Customer: Oregon Custom Supply
United States of America (USA)
Product identity: LPC-051722-01N
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-006021-0002
Evidence of Cooling: No
Temp: 24.7 °C
Relinquished by: Client

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)	Units %	Batch: 2204486	Analyze: 5/25/22 10:59:00 PM
Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0682	
CBC-A†	< LOQ		0.0682	
CBC-Total†	< LOQ		0.128	
CBD	< LOQ		0.0682	
CBD-A	< LOQ		0.0682	
CBD-Total	< LOQ		0.128	
CBDV†	< LOQ		0.0682	
CBDV-A†	< LOQ		0.0682	
CBDV-Total†	< LOQ		0.127	
CBE†	< LOQ		0.0682	
CBG†	< LOQ		0.0682	
CBG-A†	< LOQ		0.0682	
CBG-Total	< LOQ		0.127	
CBL†	< LOQ		0.0682	
CBL-A†	< LOQ		0.0682	
CBL-Total†	< LOQ		0.128	
CBN	< LOQ		0.0682	
CBT†	0.163		0.0682	
Δ8-THC	73.4		0.682	
Δ8-THCV	0.422		0.0682	
Δ9-THC	< LOQ		0.0682	
exo-THC	< LOQ		0.0682	
THC-A	< LOQ		0.0682	
THC-Total	< LOQ		0.128	
THCV†	< LOQ		0.0682	
THCV-A†	< LOQ		0.0682	
THCV-Total†	< LOQ		0.127	
Total Cannabinoids†	74.0			





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



Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

Customer: Oregon Custom Supply
United States of America (USA)
Product identity: LPC-051722-01N
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-006203-0002
Evidence of Cooling: No
Temp: 28.6 °C
Relinquished by: Client

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
E.coli	< LOQ		cfu/g	10	2204576	06/02/22	AOAC 991.14 (Petrifilm)	X	
Total Coliforms	< LOQ		cfu/g	10	2204576	06/02/22	AOAC 991.14 (Petrifilm)	X	
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2204575	06/03/22	AOAC 2014.05 (RAPID)	X	
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2204575	06/03/22	AOAC 2014.05 (RAPID)	X	

Solvents						Method Residual Solvents by GC/MS					Units µg/g	Batch 2204718	Analyze 06/03/22 10:49 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		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						



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

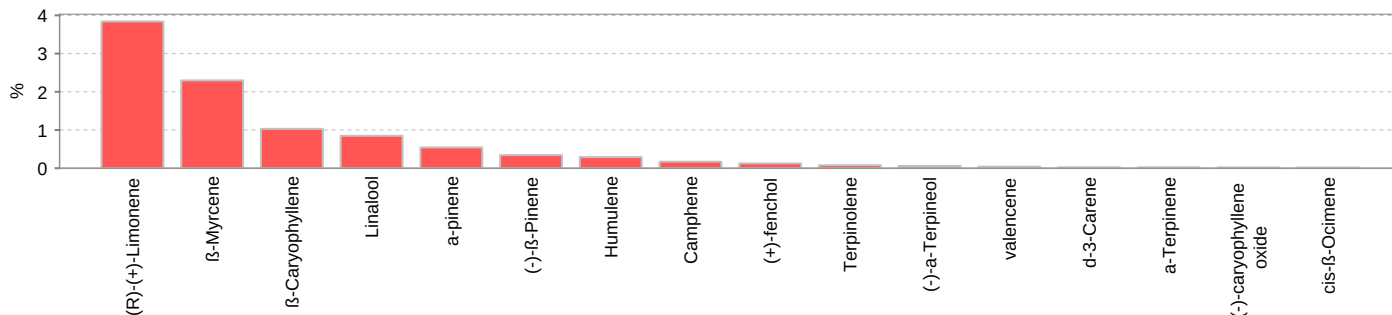


Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

Pesticides										
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2204597 Analyze 05/31/22 03:26 PM										
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status
Abamectin	< LOQ	0.100	0.100			Acephate	< LOQ	0.100	0.100	
Acequinocyl	< LOQ	0.100	0.100			Acetamiprid	< LOQ	0.100	0.100	
Aldicarb	< LOQ	0.100	0.100			Azoxystrobin	< LOQ	0.100	0.100	
Bifenazate	< LOQ	0.100	0.100			Bifenthrin	< LOQ	3.00	3.00	
Boscalid	< LOQ	0.100	0.100			Captan	< LOQ	0.700	0.700	
Carbaryl	< LOQ	0.500	0.500			Carbofuran	< LOQ	0.100	0.100	
Chlorantraniliprole	< LOQ	10.0	3.00			Chlordane	< LOQ	0.1	0.100	
Chlorfenapyr	< LOQ	0.100	0.100			Chlorpyrifos	< LOQ	0.100	0.100	
Clofentezine	< LOQ	0.100	0.100			Coumaphos	< LOQ	0.100	0.100	
Cyfluthrin	< LOQ	2.00	2.00			Cypermethrin	< LOQ	1.00	1.00	
Daminozide	< LOQ	0.100	0.100			Diazinon	< LOQ	0.100	0.100	
Dichlorvos	< LOQ	0.100	0.100			Dimethoate	< LOQ	0.100	0.100	
Dimethomorph	< LOQ	2.00	2.00			Ethoprophos	< LOQ	0.100	0.100	
Etofenprox	< LOQ	0.100	0.100			Etoxazole	< LOQ	0.100	0.100	
Fenhexamid	< LOQ	0.100	0.100			Fenoxycarb	< LOQ	0.100	0.100	
Fenpyroximate	< LOQ	0.100	0.100			Fipronil	< LOQ	0.100	0.100	
Flonicamid	< LOQ	0.100	0.100			Fludioxonil	< LOQ	0.100	0.100	
Hexythiazox	< LOQ	0.100	0.100			Imazalil	< LOQ	0.100	0.100	
Imidacloprid	< LOQ	5.00	3.00			Kresoxim-methyl	< LOQ	0.100	0.100	
Malathion	< LOQ	0.500	0.500			Metalaxyl	< LOQ	2.00	2.00	
Methiocarb	< LOQ	0.100	0.100			Methomyl	< LOQ	1.00	1.00	
Mevinphos	< LOQ	0.100	0.100			Myclobutanil	< LOQ	0.100	0.100	
Naled	< LOQ	0.100	0.100			Oxamyl	< LOQ	0.500	0.500	
Paclobutrazole	< LOQ	0.100	0.100			Parathion-Methyl	< LOQ	0.100	0.100	
Permethrin	< LOQ	0.500	0.500			Phosmet	< LOQ	0.100	0.100	
Piperonyl butoxide	< LOQ	3.00	3.00			Prallethrin	< LOQ	0.100	0.100	
Propiconazole	< LOQ	0.100	0.100			Propoxur	< LOQ	0.100	0.100	
Pyrethrins (total)	< LOQ	0.500	0.500			Pyridaben	< LOQ	0.100	0.100	
Quintozene	< LOQ	0.100	0.100			Spinetoram	< LOQ	0.100	0.100	
Spinosad	< LOQ	0.100	0.100			Spiromesifen	< LOQ	0.100	0.100	
Spirotetramat	< LOQ	0.100	0.100			Spiroxamine	< LOQ	0.100	0.100	
Tebuconazole	< LOQ	0.100	0.100			Thiacloprid	< LOQ	0.100	0.100	
Thiamethoxam	< LOQ	5.00	3.00			Trifloxystrobin	< LOQ	0.100	0.100	



Terpenes					Method J AOAC 2015 V98-6	Units %	Batch 2204711	Analyze 06/02/22 10:31 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes	
(R)-(+)-Limonene [†]	3.84	0.018	39.43%		β-Myrcene [†]	2.30	0.018	23.61%		
β-Caryophyllene [†]	1.03	0.018	10.57%		Linalool [†]	0.848	0.018	8.706%		
α-pinene [†]	0.543	0.018	5.575%		(-)-β-Pinene [†]	0.343	0.018	3.522%		
Humulene [†]	0.290	0.018	2.977%		Camphene [†]	0.169	0.018	1.735%		
(+)-fenchol [†]	0.125	0.018	1.283%		Terpinolene [†]	0.0770	0.018	0.7906%		
(-)-α-Terpineol [†]	0.0587	0.018	0.6027%		valencene [†]	0.0385	0.018	0.3953%		
d-3-Carene [†]	0.0231	0.018	0.2372%		α-Terpinene [†]	0.0224	0.018	0.2300%		
(-)-caryophyllene oxide [†]	0.0204	0.018	0.2094%		cis-β-Ocimene [†]	0.0168	0.006	0.1725%		
nerol [†]	< LOQ	0.018	0.00%		gamma-Terpinene [†]	< LOQ	0.018	0.00%		
farnesene [†]	< LOQ	0.018	0.00%		Geraniol [†]	< LOQ	0.018	0.00%		
α-Bisabolol [†]	< LOQ	0.018	0.00%		(±)-Camphor [†]	< LOQ	0.018	0.00%		
(±)-cis-Nerolidol [†]	< LOQ	0.018	0.00%		(-)-Isopulegol [†]	< LOQ	0.018	0.00%		
(+)-Pulegone [†]	< LOQ	0.018	0.00%		(±)-trans-Nerolidol [†]	< LOQ	0.018	0.00%		
(+)-Borneol [†]	< LOQ	0.018	0.00%		(+)-Cedrol [†]	< LOQ	0.018	0.00%		
(-)-Guaiol [†]	< LOQ	0.018	0.00%		(±)-fenchone [†]	< LOQ	0.018	0.00%		
α-cedrene [†]	< LOQ	0.018	0.00%		α-phellandrene [†]	< LOQ	0.018	0.00%		
Eucalyptol [†]	< LOQ	0.018	0.00%		Geranyl acetate [†]	< LOQ	0.018	0.00%		
Isoborneol [†]	< LOQ	0.018	0.00%		Menthol [†]	< LOQ	0.018	0.00%		
p-Cymene [†]	< LOQ	0.018	0.00%		Sabinene [†]	< LOQ	0.018	0.00%		
Sabinene hydrate [†]	< LOQ	0.018	0.00%		trans-β-Ocimene [†]	< LOQ	0.012	0.00%		
Total Terpenes	9.74									



Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0854	2204705	06/02/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0854	2204705	06/02/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0854	2204705	06/02/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.0427	2204705	06/02/22	AOAC 2013.06 (mod.)	pass	X



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



Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aflatoxin B2†	< LOQ		µg/kg	5.00	2204695	06/02/22	AOAC 2007.01 & EN 15		
Aflatoxin B1†	< LOQ		µg/kg	5.00	2204695	06/02/22	AOAC 2007.01 & EN 15		
Aflatoxin G1†	< LOQ		µg/kg	5.00	2204695	06/02/22	AOAC 2007.01 & EN 15		
Aflatoxin G2†	< LOQ		µg/kg	5.00	2204695	06/02/22	AOAC 2007.01 & EN 15		
Deoxynivalenol†	< LOQ		µg/kg	200	2204695	06/02/22	AOAC 2007.01 & EN 15		
Fumonisin B1†	< LOQ		µg/kg	200	2204695	06/02/22	AOAC 2007.01 & EN 15		
Fumonisin B2†	< LOQ		µg/kg	200	2204695	06/02/22	AOAC 2007.01 & EN 15		
HT2-Toxin†	< LOQ		µg/kg	40.0	2204695	06/02/22	AOAC 2007.01 & EN 15		
Ochratoxin A†	< LOQ		µg/kg	5.00	2204695	06/02/22	AOAC 2007.01 & EN 15		
Ochratoxin B†	< LOQ		µg/kg	2.00	2204695	06/02/22	AOAC 2007.01 & EN 15		
T2-Toxin†	< LOQ		µg/kg	20.0	2204695	06/02/22	AOAC 2007.01 & EN 15		
Zearalenone†	< LOQ		µg/kg	200	2204695	06/02/22	AOAC 2007.01 & EN 15		



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



Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

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.

† = Analyte not NELAP accredited.

Units of Measure

cfu/g = Colony forming units per gram

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

% wt = µg/g divided by 10,000

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager



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



Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

12423 NE Whitaker Way Portland OR 97230 p.503-254-1794

Cannabis Chain of Custody Record

PIXIS Labs
A Tentamus Company

ORELAP ID: OR100028

Company: Oregon Custom Supply			Analysis Requested												Purchase Order Number:			
Contact: Bharath Pogula			Pesticides - OR 59 compounds	Pesticide Multi-Residue - 379 compounds	Potency	Residual Solvents	Water Activity	Moisture	Terpenes	Micro: Yeast and Mold	Micro: E. Coli and Total Coliform	Heavy Metals	Mycotoxins	Other pesticides (California profile)	Project Number:			
Address: 212 NE North St. Grass Valley, OR - 97029															Project Name:			
Email: testing@gvbbiopharma.com															☐ Report Instructions:			
Phone: 973-722-5455 Fax:															☐ Send to State - METRC			
Processor's License:															☐ Email Final Results:			
			☐ Fax Final Results															
			☐ Cash/Check/CC/Net 30															
			Other:															
Field ID	Date/Time Collected														Matrix	Weight	Serving size for edibles	Comments/Metric ID
ST-051722-01N	5/24/22 8 AM								X	X	x	X	X	X	NA	50g	NA	Mfg. date: 5/23/22
LPC-051722-01N	5/24/22 8 AM								X	X	x	X	X	X	NA	50g	NA	
PC-051722-01N	5/24/22 8 AM								X	X	x	X	X	X	NA	50g	NA	

Collected By:	Relinquished By:	Date	Time	Received by:	Date	Time	Lab Use Only:
☐ Standard (5 day)	<i>PBU</i>	5/24/22	8 AM	<i>DS</i>	5/27/22	12:19	Client Alias:
☒ Rush (3-4 day) (1.5x Standard)							Order Number:
☐ Priority Rush (2 day) (2x Standard)							Proper Container
							Sample Condition
							Temperature: 28.6°C
							Shipped Via: Client
							Evidence of cooling: <i>NO</i>

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO PIXIS WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THIS FORM

Revision: 2.00 Control#: CF023
Effective 04/29/2019 Revised 04/29/2019

www.pixislabs.com
www.columbiabiolab.com

Page 1 of 2



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



Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

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

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2204711					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		493	650	µg/g	76%	70 - 130	
Camphene	<LOQ	< 200		376	500	µg/g	75%	70 - 130	
Sabinene	<LOQ	< 200		511	650	µg/g	79%	70 - 130	
b-Pinene	<LOQ	< 200		510	650	µg/g	79%	70 - 130	
b-Myrcene	<LOQ	< 200		368	500	µg/g	74%	70 - 130	
a-phellandrene	<LOQ	< 200		357	500	µg/g	71%	70 - 130	
d-3-Carene	<LOQ	< 200		360	500	µg/g	72%	70 - 130	
a-Terpinene	<LOQ	< 200		506	650	µg/g	78%	70 - 130	
p-Cymene	<LOQ	< 200		381	500	µg/g	76%	70 - 130	
D-Limonene	<LOQ	< 200		538	650	µg/g	83%	70 - 130	
Eucalyptol	<LOQ	< 200		359	500	µg/g	72%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		125	167	µg/g	75%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		261	333	µg/g	78%	70 - 130	
g-Terpinene	<LOQ	< 200		537	650	µg/g	83%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		538	650	µg/g	83%	70 - 130	
Terpinolene	<LOQ	< 200		549	650	µg/g	84%	70 - 130	
D-Fenchone	<LOQ	< 200		469	650	µg/g	72%	70 - 130	
Linalool	<LOQ	< 200		446	500	µg/g	89%	70 - 130	
Fenchol	<LOQ	< 200		551	650	µg/g	85%	70 - 130	
Camphor	<LOQ	< 200		384	500	µg/g	77%	70 - 130	
Isopulego	<LOQ	< 200		403	500	µg/g	81%	70 - 130	
Isoborneol	<LOQ	< 200		383	500	µg/g	77%	70 - 130	
Borneol	<LOQ	< 200		547	650	µg/g	84%	70 - 130	
DL-Menthol	<LOQ	< 200		388	500	µg/g	78%	70 - 130	
Terpineol	<LOQ	< 200		566	650	µg/g	87%	70 - 130	
Nerol	<LOQ	< 200		391	500	µg/g	78%	70 - 130	
Pulegone	<LOQ	< 200		568	650	µg/g	87%	70 - 130	
Geraniol	<LOQ	< 200		522	650	µg/g	80%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		421	500	µg/g	84%	70 - 130	
a-Cedrene	<LOQ	< 200		593	650	µg/g	91%	70 - 130	
b-Caryophyllene	<LOQ	< 200		397	500	µg/g	79%	70 - 130	
a-Humulene	<LOQ	< 200		596	650	µg/g	92%	70 - 130	
Valenene	<LOQ	< 200		368	500	µg/g	74%	70 - 130	
cis-Nerolidol	<LOQ	< 200		425	500	µg/g	85%	70 - 130	
a-Farnesene	<LOQ	< 200		428	500	µg/g	86%	70 - 130	
trans-Nerolidol	<LOQ	< 200		586	650	µg/g	90%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		427	500	µg/g	85%	70 - 130	
Guaiol	<LOQ	< 200		587	650	µg/g	90%	70 - 130	
Cedrol	<LOQ	< 200		401	500	µg/g	80%	70 - 130	
a-Bisabolol	<LOQ	< 200		398	500	µg/g	80%	70 - 130	

Definitions

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



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



Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

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

Terpenes Quality Control Results

Method Reference: EPA 5035			Batch ID: 2204711				
Sample/Sample Duplicate			Sample ID: 22-006203-0001				
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	6830	6700	200	µg/g	2%	< 20	
Camphene	1730	1690	200	µg/g	2%	< 20	
Sabinene	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-Pinene	6790	6750	200	µg/g	1%	< 20	
b-Myrcene	1690	1700	200	µg/g	1%	< 20	
a-phellandrene	607	562	200	µg/g	8%	< 20	
d-3-Carene	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Terpinene	520	524	200	µg/g	1%	< 20	
p-Cymene	465	466	200	µg/g	0%	< 20	
D-Limonene	56800	56100	200	µg/g	1%	< 20	
Eucalyptol	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-cis-Ocimene	1060	1040	66.6	µg/g	2%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	133	µg/g	0%	< 20	
g-Terpinene	528	530	200	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	200	µg/g	0%	< 20	
Terpinolene	2660	2630	200	µg/g	1%	< 20	
D-Fenchone	<LOQ	<LOQ	200	µg/g	0%	< 20	
Linalool	9330	9210	200	µg/g	1%	< 20	
Fenchol	1340	1320	200	µg/g	2%	< 20	
Camphor	335	338	200	µg/g	1%	< 20	
Isopulego	<LOQ	<LOQ	200	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	200	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Terpineol	643	633	200	µg/g	2%	< 20	
Nerol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	200	µg/g	0%	< 20	
Gereniol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	200	µg/g	0%	< 20	
b-Caryophyllene	6340	6260	200	µg/g	1%	< 20	
a-Humulene	1750	1730	200	µg/g	1%	< 20	
Valenene	<LOQ	<LOQ	200	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	200	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	200	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	200	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	200	µg/g	0%	< 20	
a-Bisabolol	<LOQ	<LOQ	200	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



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



Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

Revision: Document ID:
Legacy ID: Effective:

Laboratory Quality Control Results

Residual Solvents				Batch ID: 2204718					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		480	572	µg/g	83.9	60 - 120	
Isobutane	ND	< 200		693	731	µg/g	94.8	60 - 120	
Butane	ND	< 200		669	731	µg/g	91.5	60 - 120	
2,2-Dimethylpropane	ND	< 200		803	936	µg/g	85.8	60 - 120	
Methanol	ND	< 200		1600	1620	µg/g	98.8	60 - 120	
Ethylene Oxide	ND	< 30		56	56.2	µg/g	99.6	60 - 120	
2-Methylbutane	ND	< 200		1720	1620	µg/g	106.2	60 - 120	
Pentane	ND	< 200		1710	1610	µg/g	106.2	60 - 120	
Ethanol	ND	< 200		1720	1630	µg/g	105.5	70 - 130	
Ethyl Ether	ND	< 200		1710	1620	µg/g	105.6	60 - 120	
2,2-Dimethylbutane	ND	< 30		179	174	µg/g	102.9	60 - 120	
Acetone	ND	< 200		1700	1650	µg/g	103.0	60 - 120	
2-Propanol	ND	< 200		1680	1610	µg/g	104.3	60 - 120	
Ethyl Formate	ND	< 500		1570	1600	µg/g	98.1	70 - 130	
Acetonitrile	ND	< 100		496	498	µg/g	99.6	60 - 120	
Methyl Acetate	ND	< 500		1570	1610	µg/g	97.5	70 - 130	
2,3-Dimethylbutane	ND	< 30		185	176	µg/g	105.1	60 - 120	
Dichloromethane	ND	< 60		553	510	µg/g	108.4	60 - 120	
2-Methylpentane	ND	< 30		179	176	µg/g	101.7	60 - 120	
MTBE	ND	< 500		1640	1600	µg/g	102.5	70 - 130	
3-Methylpentane	ND	< 30		180	175	µg/g	102.9	60 - 120	
Hexane	ND	< 30		185	177	µg/g	104.5	60 - 120	
1-Propanol	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
Methyl ethyl ketone	ND	< 500		1660	1600	µg/g	103.8	70 - 130	
Ethyl acetate	ND	< 200		1720	1630	µg/g	105.5	60 - 120	
2-Butanol	ND	< 200		1670	1620	µg/g	103.1	60 - 120	
Tetrahydrofuran	ND	< 100		528	500	µg/g	105.6	60 - 120	
Cyclohexane	ND	< 200		1690	1620	µg/g	104.3	60 - 120	
2-methyl-1-propanol	ND	< 500		1500	1620	µg/g	92.6	70 - 130	
Benzene	ND	< 1		5.33	5.32	µg/g	100.2	60 - 120	
Isopropyl Acetate	ND	< 200		1710	1620	µg/g	105.6	60 - 120	
Heptane	ND	< 200		1770	1770	µg/g	100.0	60 - 120	
1-Butanol	ND	< 500		1660	1600	µg/g	103.8	70 - 130	
Propyl Acetate	ND	< 500		1720	1600	µg/g	107.5	70 - 130	
1,4-Dioxane	ND	< 100		512	504	µg/g	101.6	60 - 120	
2-Ethoxyethanol	ND	< 30		171	181	µg/g	94.5	60 - 120	
Methylisobutylketone	ND	< 500		1590	1610	µg/g	98.8	70 - 130	
3-Methyl-1-butanol	ND	< 500		1600	1610	µg/g	99.4	70 - 130	
Ethylene Glycol	ND	< 200		467	494	µg/g	94.5	60 - 120	
Toluene	ND	< 100		508	491	µg/g	103.5	60 - 120	
Isobutyl Acetate	ND	< 500		1730	1600	µg/g	108.1	70 - 130	
1-Pentanol	ND	< 500		1630	1610	µg/g	101.2	70 - 130	
Butyl Acetate	ND	< 500		1530	1610	µg/g	95.0	70 - 130	
Ethylbenzene	ND	< 200		978	973	µg/g	100.5	60 - 120	
m,p-Xylene	ND	< 200		992	996	µg/g	99.6	60 - 120	
o-Xylene	ND	< 200		977	973	µg/g	100.4	60 - 120	
Cumene	ND	< 30		169	170	µg/g	99.4	60 - 120	
Anisole	ND	< 500		1630	1610	µg/g	101.2	70 - 130	
DMSO	ND	< 500		1660	1630	µg/g	101.8	70 - 130	
1,2-dimethoxyethane	ND	< 50		175	164	µg/g	106.7	70 - 130	
Triethylamine	ND	< 500		1470	1600	µg/g	91.9	70 - 130	
N,N-dimethylformamide	ND	< 150		484	497	µg/g	97.4	70 - 130	
N,N-dimethylacetamide	ND	< 150		486	498	µg/g	97.6	70 - 130	
Pyridine	ND	< 50		185	180	µg/g	102.8	70 - 130	
1,2-Dichloroethane	ND	< 1		0.927	1	µg/g	92.7	70 - 130	
Chloroform	ND	< 1		0.934	1	µg/g	93.4	70 - 130	
Trichloroethylene	ND	< 1		0.917	1	µg/g	91.7	70 - 130	



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



Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19

Revision: Document ID:
Legacy ID: Effective:

QC - Sample Duplicate				Sample ID: 22-006093-0001			
Analyte	Result	Org. Result	LOQ Units	RPD	Limits	Accept/Fail	Notes
Propane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Isobutane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Butane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2,2-Dimethylpropane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Methanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethylene Oxide	ND	ND	30 µg/g	0.0	< 20	Acceptable	
2-Methylbutane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Pentane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethyl Ether	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2,2-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Acetone	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2-Propanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Ethyl Formate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Acetonitrile	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Methyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
2,3-Dimethylbutane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Dichloromethane	ND	ND	60 µg/g	0.0	< 20	Acceptable	
2-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
MTBE	ND	ND	500 µg/g	0.0	< 20	Acceptable	
3-Methylpentane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30 µg/g	0.0	< 20	Acceptable	
1-Propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Methyl ethyl ketone	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Ethyl acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2-Butanol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Tetrahydrofuran	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Cyclohexane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
2-methyl-1-propanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Benzene	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Isopropyl Acetate	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Heptane	ND	ND	200 µg/g	0.0	< 20	Acceptable	
1-Butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Propyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
1,4-Dioxane	ND	ND	100 µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Methyl isobutyl ketone	ND	ND	500 µg/g	0.0	< 20	Acceptable	
3-Methyl-1-butanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Ethylene Glycol	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Toluene	ND	ND	100 µg/g	0.0	< 20	Acceptable	
Isobutyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
1-Pentanol	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Butyl Acetate	ND	ND	500 µg/g	0.0	< 20	Acceptable	
Ethylbenzene	ND	ND	200 µg/g	0.0	< 20	Acceptable	
m,p-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable	
o-Xylene	ND	ND	200 µg/g	0.0	< 20	Acceptable	
Cumene	ND	ND	30 µg/g	0.0	< 20	Acceptable	
Anisole	ND	ND	500 µg/g	0.0	< 20	Acceptable	
DMSO	ND	ND	500 µg/g	0.0	< 20	Acceptable	
1,2-dimethoxyethane	ND	ND	50 µg/g	0.0	< 20	Acceptable	
Triethylamine	ND	ND	500 µg/g	0.0	< 20	Acceptable	
N,N-dimethylformamide	ND	ND	150 µg/g	0.0	< 20	Acceptable	
N,N-dimethylacetamide	ND	ND	150 µg/g	0.0	< 20	Acceptable	
Pyridine	ND	ND	50 µg/g	0.0	< 20	Acceptable	
1,2-Dichloroethane	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Chloroform	ND	ND	1 µg/g	0.0	< 20	Acceptable	
Trichloroethylene	ND	ND	1 µg/g	0.0	< 20	Acceptable	

Abbreviations

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

Units of Measure:

µg/g - Microgram per gram or ppm



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



Report Number: 22-006203/D003.R001
Report Date: 06/07/2022
ORELAP#: OR100028
Purchase Order:
Received: 05/27/22 12:19





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.