



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



Report Number: 22-000807/D003.R000
Report Date: 02/02/2022
ORELAP#: OR100028
Purchase Order: 210020
Received: 01/21/22 15:08

Customer: KIK By Kalibloom
Product identity: Master Kush
Project Number: 210020
Client/Metric ID: .
Laboratory ID: 22-000807-0021

Summary

Potency:

Analyte	Result (%)		
Δ8-THC [†]	88.8		
CBT [†]	0.384		
Δ8-THCV	0.382		
			CBD-Total <LOQ THC-Total <LOQ (Reported in percent of total sample)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
2-Propanol (IPA)	231	5000	pass

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
β-Myrcene [†]	0.782	32.58%	a-pinene [†]	0.435	18.12%
β-Caryophyllene [†]	0.386	16.08%	(R)-(+)-Limonene [†]	0.245	10.21%
(-)-β-Pinene [†]	0.232	9.67%	p-Cymene [†]	0.0864	3.60%
Humulene [†]	0.0856	3.57%	a-Bisabolol [†]	0.0621	2.59%
Linalool [†]	0.0591	2.46%	valencene [†]	0.0302	1.26%
Total Terpenes[†]	2.40	100.00%			

Metals:

Less than LOQ for all analytes.



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Customer: KIK By Kalibloom
 United States of America (USA)
Product identity: Master Kush
Project Number: 210020
Client/Metric ID: .
Sample Date:
Laboratory ID: 22-000807-0021
Evidence of Cooling: No
Temp: 15.5 °C
Relinquished by: Fedex

Sample Results

Potency	Method J AOAC 2015 V98-6 (mod)			Units %	Batch: 2200694	Analyze: 1/26/22 4:34:00 AM
Analyte	As Received	Dry weight	LOQ	Notes		
CBC	< LOQ		0.0855		<ul style="list-style-type: none"> ● 8-THC ● CBT ● 8-THCV 	
CBC-A†	< LOQ		0.0855			
CBC-Total†	< LOQ		0.160			
CBD	< LOQ		0.0855			
CBD-A	< LOQ		0.0855			
CBD-Total	< LOQ		0.160			
CBDV†	< LOQ		0.0855			
CBDV-A†	< LOQ		0.0855			
CBDV-Total†	< LOQ		0.160			
CBE†	< LOQ		0.0855			
CBG†	< LOQ		0.0855			
CBG-A†	< LOQ		0.0855			
CBG-Total	< LOQ		0.160			
CBL†	< LOQ		0.0855			
CBL-A†	< LOQ		0.0855			
CBL-Total†	< LOQ		0.160			
CBN	< LOQ		0.0855			
CBT†	0.384		0.0855			
Δ8-THC†	88.8		0.855			
Δ8-THCV	0.382		0.0855			
Δ9-THC	< LOQ		0.0855			
THC-A	< LOQ		0.0855			
THC-Total	< LOQ		0.160			
THCV†	< LOQ		0.0855			
THCV-A†	< LOQ		0.0855			
THCV-Total†	< LOQ		0.160			
Total Cannabinoids†	89.6					



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Solvents						Residual Solvents by GC/MS						Units µg/g		Batch 2200717		Analyze 01/27/22 09:01 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)	231	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									



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2200711 Analyze 01/27/22 08:26 AM											
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							

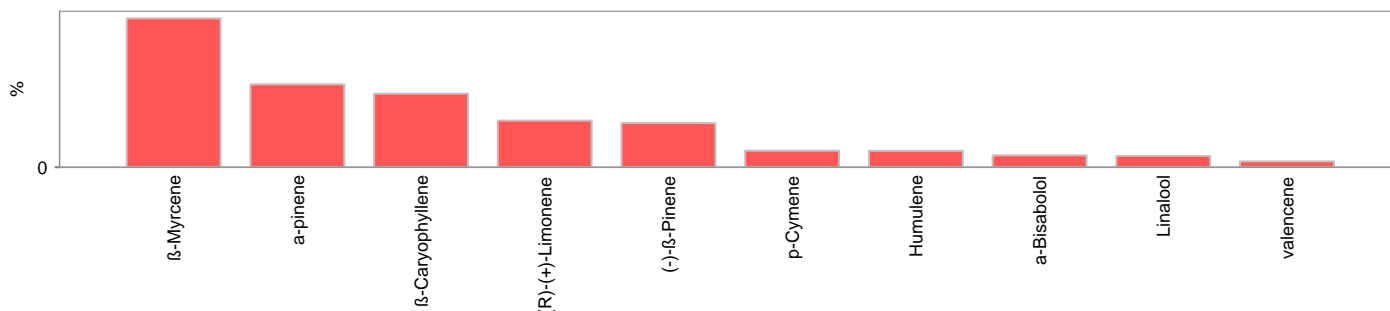


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Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2200842	Analyze 01/31/22 10:38 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
β-Myrcene [†]	0.782	0.019	32.583%		a-pinene [†]	0.435	0.019	18.125%	
β-Caryophyllene [†]	0.386	0.019	16.083%		(R)-(+)-Limonene [†]	0.245	0.019	10.208%	
(-)-β-Pinene [†]	0.232	0.019	9.667%		p-Cymene [†]	0.0864	0.019	3.6000%	
Humulene [†]	0.0856	0.019	3.5667%		α-Bisabolol [†]	0.0621	0.019	2.5875%	
Linalool [†]	0.0591	0.019	2.4625%		valencene [†]	0.0302	0.019	1.2583%	
Camphene [†]	< LOQ	0.019	0.00%		(+)-fenchol [†]	< LOQ	0.019	0.00%	
(-)-α-Terpineol [†]	< LOQ	0.019	0.00%		Geraniol [†]	< LOQ	0.019	0.00%	
(-)-Guaiol [†]	< LOQ	0.019	0.00%		(-)-caryophyllene oxide [†]	< LOQ	0.019	0.00%	
Terpinolene [†]	< LOQ	0.019	0.00%		Geranyl acetate [†]	< LOQ	0.019	0.00%	
nerol [†]	< LOQ	0.019	0.00%		α-Terpinene [†]	< LOQ	0.019	0.00%	
d-3-Carene [†]	< LOQ	0.019	0.00%		(±)-fenchone [†]	< LOQ	0.019	0.00%	
(±)-Camphor [†]	< LOQ	0.019	0.00%		cis-β-Ocimene [†]	< LOQ	0.006	0.00%	
Menthol [†]	< LOQ	0.019	0.00%		γ-Terpinene [†]	< LOQ	0.019	0.00%	
farnesene [†]	< LOQ	0.019	0.00%		(+)-Pulegone [†]	< LOQ	0.019	0.00%	
Sabinene hydrate [†]	< LOQ	0.019	0.00%		Isoborneol [†]	< LOQ	0.019	0.00%	
(-)-Isopulegol [†]	< LOQ	0.019	0.00%		(+)-Borneol [†]	< LOQ	0.019	0.00%	
(+)-Cedrol [†]	< LOQ	0.019	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.019	0.00%	
(±)-trans-Nerolidol [†]	< LOQ	0.019	0.00%		α-cedrene [†]	< LOQ	0.019	0.00%	
α-phellandrene [†]	< LOQ	0.019	0.00%		Eucalyptol [†]	< LOQ	0.019	0.00%	
Sabinene [†]	< LOQ	0.019	0.00%		trans-β-Ocimene [†]	< LOQ	0.013	0.00%	
Total Terpenes	2.40								



Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Arsenic	< LOQ	0.200	mg/kg	0.0376	2200709	01/26/22	AOAC 2013.06 (mod.)	pass	X
Cadmium	< LOQ	0.200	mg/kg	0.0376	2200709	01/26/22	AOAC 2013.06 (mod.)	pass	X
Lead	< LOQ	0.500	mg/kg	0.0376	2200709	01/26/22	AOAC 2013.06 (mod.)	pass	X
Mercury	< LOQ	0.100	mg/kg	0.0188	2200709	01/26/22	AOAC 2013.06 (mod.)	pass	X



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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

µg/g = Microgram per gram

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



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Hemp / Cannabis Usable / Extract
 Chain of Custody Record

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
 ORELAP ID: OR100028

Company: <u>Kik By Kalibloom</u> Contact: <u>Taylor</u> Street: <u>5315 E Russel Rd STE A41</u> City: <u>Las Vegas</u> State: <u>NV</u> Zip: <u>89120</u> <input type="checkbox"/> Email Results: <u>kalibloomworldwide@gmail.com</u> Ph: () () () () () () () () () () <input type="checkbox"/> Fx Results: () () () () () () () () () () Billing (if different): _____				Analysis Requested										PO Number: <u>210020</u> Project Number: _____ Project Name: _____ Custom Reporting: _____ Report to State - <input type="checkbox"/> METRC or <input type="checkbox"/> Other: _____ Turnaround time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * <i>*Ask for availability</i> Sampled by: _____			
Lab ID	Client Sample Identification	Date	Time	Potency	Metals	Solvents	Pesticides	Terpene							Sample Type †	Weight (Units)	Comments/Metric ID
	<u>Berry Kush</u>			X	X	X	X	X									
	<u>Biscotti</u>			X	X	X	X	X									
	<u>Chem Dawg</u>			X	X	X	X	X									
	<u>Fire OG</u>			X	X	X	X	X									
	<u>Gelato #41</u>			X	X	X	X	X									
	<u>Grape Ape</u>			X	X	X	X	X									
	<u>Guava</u>			X	X	X	X	X									
	<u>Gushers</u>			X	X	X	X	X									
	<u>King Louis XIII</u>			X	X	X	X	X									
	<u>Lemon Cake</u>			X	X	X	X	X									
	<u>Pa Pava Rosin</u>			X	X	X	X	X									
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:									
				<u>TJS</u>		<u>1/21/22</u>	<u>15:08</u>	<input checked="" type="checkbox"/> Shipped Via: <u>Fedex</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>15.5°C</u> Sample in good condition: <input checked="" 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)

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 333-007-0400 OAR 333-007-0410 OAR 333-007-0430



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**Hemp / Cannabis Usable / Extract
 Chain of Custody Record**

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
 ORELAP ID: OR100028

PRICING AND CHARGES

Prices to be charged for work performed for CUSTOMER are those currently published in the Columbia Laboratories (herein referred to as "the LAB". Standard pricing applies unless otherwise agreed in writing by the CUSTOMER and the LAB. CUSTOMER must notify the LAB of price quotation at the time of the transfer of sample(s) to the LAB. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation. Unless otherwise agreed upon, samples containing hazardous material will be shipped back to client at their expense, or disposed of at a certain fee, waste category dependent. New accounts are accepted with full payment in advance by cash, check, Visa or Mastercard. A credit line may be established with an approved credit application.

DELIVERY AND LIABILITY LIMITATIONS

The specific format of the goods will be defined by CUSTOMER to the LAB upon delivery of the sample(s) to the LAB. The LAB will analyze samples provided by CUSTOMER as requested by CUSTOMER in accordance with the procedures documented in the Quality Assurance Plan (QAP). Samples are retained for 30 days after receipt. If additional time is desired, then a written request is required, and an additional monthly fee will apply.

CONFIDENTIALITY

The LAB will treat all information regarding work performed for CUSTOMER as proprietary and confidential. No CUSTOMER information will be released to third persons without the written request of the CUSTOMER.

LIMITATION OF LIABILITY AND WARRANTY

The LAB gives no warranty, express or implied, or of fitness for a particular purpose, in connection with its analytical testing or reporting. Any liability of the LAB to CUSTOMER or any third party shall be limited to the cost of analysis charged to CUSTOMER.

PAST DUE ACCOUNTS

Credit line account are payable within 30 days. Accounts that are 60 days past due will incur 1¹/₂% per month on all past due sums until paid in full and will automatically default to cash on delivery (COD). Reports will not be released unless payment on past and current invoices are received. Customer agrees to pay the interest as a service charge and all the LAB's collection costs, including reasonable attorney fees.

EXPERT TESTIMONY AND COURT APPEARANCES

In the event CUSTOMER requires the further written opinion or testimony of any employee of the LAB, including response to a subpoena issued by CUSTOMER or any third person, CUSTOMER agrees to pay such additional fees and expenses as may be reasonably assessed by the LAB.

ALTERNATIVE DISPUTE RESOLUTION (ADR)

Any disputes arising out of this Agreement or the analytical testing or reporting by the LAB shall be settled through mediation and/or arbitration rather than litigation, and the cost of the ADR shall be borne equally by both parties.

APPLICABLE LAW

Legal matters arising from work performed by the LAB for CUSTOMER will be construed and interpreted in accordance with the laws for the state of Oregon. When sending, transferring, or submitting samples, the CUSTOMER assumes full responsibility for complying with all applicable state and federal laws

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Page _____ of _____
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Hemp / Cannabis Usable / Extract
 Chain of Custody Record

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
 ORELAP ID: OR100028

Company: <u>KIK BY kaliblam</u> Contact: <u>Taylor</u> Street: <u>3315 E Russel Rd st A4</u> City: <u># 346 LA</u> State: <u>NJ</u> Zip: <u>08920</u> <input type="checkbox"/> Email Results: <u>kaliblamurde@gmail</u> Ph: () Fx Results: () Billing (if different):				Analysis Requested					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"/> Standard <input checked="" type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * <i>*Ask for availability</i>		
Lab ID	Client Sample Identification	Date	Time	Potency	Metals	Solvents	Pesticides	Terpenes	Sample Type †	Weight (Units)	Comments/Metric ID
	Runtz			X	X	X	X	X			
	Ice Cream Cake			X	X	X	X	X			
	Sour Diesel Sauce			X	X	X	X	X			
	Blue Dream			X	X	X	X	X			
	Gorilla glue			X	X	X	X	X			
	Girl Scout Cookies			X	X	X	X	X			
	NYC Diesel			X	X	X	X	X			
	Paris og			X	X	X	X	X			
	Exotic Jack			X	X	X	X	X			
	Mimosa			X	X	X	X	X			
	Master Kush			X	X	X	X	X			
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:			
				<u>DS</u>		<u>1/21/22</u>	<u>15:08</u>	<input checked="" type="checkbox"/> Shipped Via: <u>Fedex</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>15.5°C</u> Sample in good condition: <input checked="" 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: _____			

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Page _____ of _____
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 ORELAP#: OR100028
 Purchase Order: 210020
 Received: 01/21/22 15:08



Hemp / Cannabis Usable / Extract
 Chain of Custody Record

Revision: 3.01 Control#: CF023 Rev 02/26/2020 Eff: 02/27/2020
 ORELAP ID: OR100028

Company: <u>Kik by Kalibam</u> Contact: <u>Taylor</u> Street: <u>3315 E Russel rd STE A4</u> City: <u>340 W</u> State: <u>NV</u> Zip: <u>89120</u> <input type="checkbox"/> Email Results: <u>Kalibamworldwide@gmail.com</u> Ph: () _____ <input type="checkbox"/> Fx Results: () _____ Billing (if different): _____				Analysis Requested						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"/> Standard <input checked="" type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * <i>*Ask for availability</i>	
				Potency Metals Solvents Pesticides Terpene						Sampled by: _____	
Lab ID	Client Sample Identification	Date	Time	Potency	Metals	Solvents	Pesticides	Terpene	Sample Type †	Weight (Units)	Comments/Metric ID
	Green Rack			X	X	X	X	X			
	Marijuana			X	X	X	X	X			
Relinquished By: _____				Received By: <u>DS</u>				Lab Use Only:			
Date: _____				Date: <u>1/21/22</u>				Time: <u>15:08</u>			
								<input checked="" type="checkbox"/> Shipped Via: <u>Fedex</u> or <input type="checkbox"/> Client drop Evidence of cooling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No - Temp (°C): <u>15.5°C</u> Sample in good condition: <input checked="" 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)

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@columbialaboratories.com
 Page _____ of _____
 www.columbialaboratories.com



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



Report Number: 22-000807/D003.R000
Report Date: 02/02/2022
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Received: 01/21/22 15:08



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: 1/21/22 Time: 15:08

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): 2889 5979 6339

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

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: 15.5°C



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

Laboratory Quality Control Results

J AOAC 2015 V98-6								
Batch ID: 2200694								
Laboratory Control Sample								
Analyte	Result	Spike	Units	% Rec	Limits		Evaluation	Notes
CBDVA	0.197	0.2	%	98.5	85.0	- 115	Acceptable	
CBDV	0.212	0.2	%	106	85.0	- 115	Acceptable	
CBE	0.200	0.2	%	100	85.0	- 115	Acceptable	
CBDA	0.203	0.2	%	101	85.0	- 115	Acceptable	
CBGA	0.196	0.2	%	98.2	85.0	- 115	Acceptable	
CBG	0.191	0.2	%	95.4	85.0	- 115	Acceptable	
CBD	0.192	0.2	%	96.2	85.0	- 115	Acceptable	
THCV	0.186	0.2	%	92.8	85.0	- 115	Acceptable	
d8THCV	0.191	0.2	%	95.6	85.0	- 115	Acceptable	
THCVA	0.195	0.2	%	97.7	85.0	- 115	Acceptable	
CBN	0.190	0.2	%	95.1	85.0	- 115	Acceptable	
exo-THC	0.182	0.2	%	90.8	85.0	- 115	Acceptable	
d9THC	0.185	0.2	%	92.4	85.0	- 115	Acceptable	
d8THC	0.179	0.2	%	89.5	85.0	- 115	Acceptable	
CBL	0.180	0.2	%	90.0	85.0	- 115	Acceptable	
CBC	0.188	0.2	%	93.9	85.0	- 115	Acceptable	
THCA	0.192	0.2	%	96.2	85.0	- 115	Acceptable	
CBCA	0.201	0.2	%	100	85.0	- 115	Acceptable	
CBLA	0.205	0.2	%	103	85.0	- 115	Acceptable	
CBT	0.227	0.2	%	113	85.0	- 115	Acceptable	

Method Blank

Analyte	Result	LOQ	Units	Limits	Evaluation	Notes
CBDVA	<LOQ	0.1	%	< 0.1	Acceptable	
CBDV	<LOQ	0.1	%	< 0.1	Acceptable	
CBE	<LOQ	0.1	%	< 0.1	Acceptable	
CBDA	<LOQ	0.1	%	< 0.1	Acceptable	
CBGA	<LOQ	0.1	%	< 0.1	Acceptable	
CBG	<LOQ	0.1	%	< 0.1	Acceptable	
CBD	<LOQ	0.1	%	< 0.1	Acceptable	
THCV	<LOQ	0.1	%	< 0.1	Acceptable	
d8THCV	<LOQ	0.1	%	< 0.1	Acceptable	
THCVA	<LOQ	0.1	%	< 0.1	Acceptable	
CBN	<LOQ	0.1	%	< 0.1	Acceptable	
exo-THC	<LOQ	0.1	%	< 0.1	Acceptable	
d9THC	<LOQ	0.1	%	< 0.1	Acceptable	
d8THC	<LOQ	0.1	%	< 0.1	Acceptable	
CBL	<LOQ	0.1	%	< 0.1	Acceptable	
CBC	<LOQ	0.1	%	< 0.1	Acceptable	
THCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBCA	<LOQ	0.1	%	< 0.1	Acceptable	
CBLA	<LOQ	0.1	%	< 0.1	Acceptable	
CBT	<LOQ	0.1	%	< 0.1	Acceptable	

Abbreviations

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

Units of Measure:

% - Percent



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



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Laboratory Quality Control Results

J AOAC 2015 V98-6		Batch ID: 2200694						
Sample Duplicate		Sample ID: 22-000800-0021						
Analyte	Result	Org. Result	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
CBDV	<LOQ	<LOQ	0.1	%	NA	< 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	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
THCV	<LOQ	<LOQ	0.1	%	NA	< 20	Acceptable	
d8THCV	0.427	0.415	0.1	%	2.86	< 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	87.4	87.5	0.1	%	0.12	< 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	0.572	0.418	0.1	%	31.1	< 20	Outlier	R, Q6

Abbreviations

- ND - None Detected at or above MRL
- RPD - Relative Percent Difference
- LOQ - Limit of Quantitation
- R - Relative percent difference (RPD) outside control limit.
- Q6 - Quality control outside QC limits. Data acceptable based on remaining QC.

Units of Measure:

% - Percent



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



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg		Laboratory Control Sample			Batch ID: 2200711	
Method Blank	Blank Result	Blank Limits	Notes	LCS Result	LCS Spike	LCS % Rec	Limits	Notes
Acetate	0.000	< 0.250		1.100	1.000	110.0	72.8 - 134	
Acequinocyl	0.000	< 1.000		3.674	4.000	91.8	70.6 - 131	
Acetamiprid	0.000	< 0.100		0.433	0.400	108.2	79.0 - 127	
Aldicarb	0.000	< 0.200		0.857	0.800	107.1	69.5 - 129	
Abamectin	0.000	< 0.250		1.083	1.000	108.3	71.8 - 133	
Azoxystrobin	0.000	< 0.100		0.414	0.400	103.4	74.3 - 128	
Bifenazate	0.000	< 0.100		0.429	0.400	107.2	98.7 - 183	
Bifenthrin	0.000	< 0.100		0.422	0.400	105.4	69.1 - 128	
Boscalid	0.000	< 0.200		0.905	0.800	113.2	74.3 - 138	
Carbaryl	0.000	< 0.100		0.444	0.400	111.1	76.8 - 130	
Carbofuran	0.000	< 0.100		0.435	0.400	108.7	72.8 - 135	
Chlorantraniliprol	0.000	< 0.100		0.414	0.400	103.5	81.8 - 119	
Chlorfenapyr	0.000	< 0.500		2.400	2.000	120.0	72.3 - 134	
Chlorpyrifos	0.000	< 0.100		0.408	0.400	102.0	70.2 - 130	
Clofentazine	0.000	< 0.100		0.397	0.400	99.2	73.1 - 129	
Cyfluthrin	0.000	< 0.500		1.978	2.000	98.9	71.9 - 134	
Cypermethrin	0.000	< 0.500		2.030	2.000	101.5	74.9 - 129	
Daminozide	0.309	< 0.500		2.637	2.000	131.9	76.0 - 141	
Diazinon	0.000	< 0.100		0.363	0.400	90.8	76.1 - 141	
Dichlorvos	0.000	< 0.500		2.013	2.000	100.6	74.4 - 126	
Dimethoat	0.000	< 0.100		0.417	0.400	104.2	80.7 - 125	
Ethoprophos	0.000	< 0.100		0.407	0.400	101.8	74.0 - 133	
Etofenprox	0.000	< 0.200		0.783	0.800	97.9	74.2 - 138	
Etoxazol	0.000	< 0.100		0.415	0.400	103.7	72.4 - 134	
Fenoxycarb	0.000	< 0.100		0.425	0.400	106.3	73.8 - 132	
Fenpyroximat	0.000	< 0.200		0.811	0.800	101.4	76.5 - 130	
Fipronil	0.000	< 0.200		0.901	0.800	112.6	80.2 - 135	
Flonicamid	0.000	< 0.250		1.176	1.000	117.6	71.0 - 132	
Fludioxonil	0.000	< 0.200		0.835	0.800	104.4	73.1 - 136	
Hexythiazox	0.000	< 0.250		1.042	1.000	104.2	70.9 - 132	
Imazalil	0.000	< 0.100		0.490	0.400	122.6	76.3 - 132	
Imidacloprid	0.000	< 0.200		0.848	0.800	106.0	79.0 - 128	
Kresoxim-Methyl	0.000	< 0.200		0.879	0.800	109.9	75.1 - 130	
Malathion	0.000	< 0.100		0.485	0.400	121.3	77.5 - 133	
Metaxyl	0.000	< 0.100		0.416	0.400	104.1	77.1 - 130	
Methiocarb	0.000	< 0.100		0.436	0.400	108.9	81.0 - 124	
Methomyl	0.000	< 0.200		0.853	0.800	106.6	69.6 - 129	
MKG 264	0.000	< 0.100		0.442	0.400	110.6	74.1 - 133	
Myclobutanil	0.000	< 0.100		0.464	0.400	115.9	71.9 - 133	
Naled	0.000	< 0.250		0.979	1.000	97.9	72.9 - 132	
Oxamyl	0.000	< 0.500		2.119	2.000	106.0	70.3 - 131	
Paclobutrazol	0.000	< 0.200		0.845	0.800	105.6	72.6 - 135	
Parathion Methyl	0.000	< 0.200		0.967	0.800	120.8	74.6 - 133	
Permethrin	0.000	< 0.100		0.394	0.400	98.6	70.3 - 131	
Phosmet	0.000	< 0.100		0.418	0.400	104.5	76.8 - 131	
Piperonyl butoxide	0.000	< 0.500		2.263	2.000	113.1	72.9 - 135	
Prallethrin	0.000	< 0.100		0.437	0.400	109.3	77.5 - 127	
Propiconazole	0.000	< 0.200		0.837	0.800	104.6	73.6 - 134	
Propoxur	0.000	< 0.100		0.430	0.400	107.6	72.3 - 134	
Pyrethrins	0.000	< 0.100		0.415	0.413	100.6	69.0 - 128	
Pyridaben	0.000	< 0.100		0.409	0.400	102.3	71.2 - 132	
Spinosad	0.000	< 0.100		0.500	0.388	128.7	74.2 - 138	
Spiromesifen	0.000	< 0.100		0.386	0.400	96.5	72.3 - 134	
Spirotetramat	0.000	< 0.100		0.417	0.400	104.2	76.3 - 132	
Spiroxamine	0.000	< 0.200		0.809	0.800	101.2	74.0 - 128	
Tebuconazol	0.000	< 0.200		0.868	0.800	108.5	73.4 - 136	
Thiacloprid	0.000	< 0.100		0.440	0.400	109.9	78.2 - 130	
Thiamethoxam	0.000	< 0.100		0.469	0.400	117.2	73.5 - 129	
Trifloxystrobin	0.000	< 0.100		0.410	0.400	102.4	77.2 - 131	



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Laboratory Pesticide Quality Control Results

AOAC 2007.1 & EN 15662		Units: mg/Kg					Batch ID: 2200711			
Matrix Spike/Matrix Spike Duplicate Recoveries		Sample ID: 22-000807-0013								
Analyte	Result	MS Res	MSD Res	Spike	RPD%	Limit	MS % Rec	MSD % Rec	Limits	Notes
Acephate	0.000	1.048	1.027	1.000	2.1%	< 30	104.8%	102.7%	50 - 150	
Acequinocyl	0.000	3.777	5.143	4.000	30.6%	< 30	94.4%	128.6%	50 - 150	R
Acetamiprid	0.000	0.274	0.274	0.400	0.2%	< 30	68.6%	68.5%	50 - 150	
Aldicarb	0.000	0.851	0.789	0.800	7.5%	< 30	106.4%	98.6%	50 - 150	
Abamectin	0.000	0.680	0.766	1.000	11.9%	< 30	68.0%	76.6%	50 - 150	
Azoxystrobin	0.000	0.374	0.377	0.400	0.6%	< 30	93.6%	94.2%	50 - 150	
Bifenazate	0.000	0.441	0.435	0.400	1.3%	< 30	110.3%	108.9%	50 - 150	
Bifenthrin	0.000	0.381	0.380	0.400	0.3%	< 30	95.2%	94.9%	50 - 150	
Boscalid	0.000	0.828	0.799	0.800	3.5%	< 30	103.5%	99.9%	50 - 150	
Carbaryl	0.000	0.416	0.414	0.400	0.5%	< 30	104.1%	103.6%	50 - 150	
Carbofuran	0.000	0.361	0.362	0.400	0.2%	< 30	90.2%	90.4%	50 - 150	
Chlorantraniliprol	0.000	0.317	0.309	0.400	2.4%	< 30	79.2%	77.4%	50 - 150	
Chlorfenapyr	0.000	1.874	1.891	2.000	0.9%	< 30	93.7%	94.6%	50 - 150	
Chlorpyrifos	0.000	0.415	0.399	0.400	4.0%	< 30	103.9%	99.7%	50 - 150	
Clofentezine	0.000	0.381	0.373	0.400	2.2%	< 30	95.3%	93.2%	50 - 150	
Cyfluthrin	0.000	2.220	2.107	2.000	5.2%	< 30	111.0%	105.3%	30 - 150	
Cypermethrin	0.000	2.083	2.117	2.000	1.6%	< 30	104.2%	105.9%	50 - 150	
Daminozide	0.248	2.258	2.199	2.000	3.0%	< 30	100.5%	97.5%	30 - 150	
Diazinon	0.000	0.333	0.341	0.400	2.3%	< 30	83.4%	85.4%	50 - 150	
Dichlorvos	0.000	1.846	1.897	2.000	2.7%	< 30	92.3%	94.9%	50 - 150	
Dimethoat	0.000	0.329	0.332	0.400	0.9%	< 30	82.2%	83.0%	50 - 150	
Ethoprophos	0.000	0.389	0.362	0.400	7.3%	< 30	97.3%	90.4%	50 - 150	
Etofenprox	0.000	0.784	0.789	0.800	0.7%	< 30	98.0%	98.7%	50 - 150	
Etoxazol	0.000	0.403	0.409	0.400	1.6%	< 30	100.6%	102.2%	50 - 150	
Fenoxycarb	0.000	0.400	0.392	0.400	2.2%	< 30	100.1%	97.9%	50 - 150	
Fenpyroximat	0.000	0.655	0.663	0.800	1.2%	< 30	81.9%	82.9%	50 - 150	
Fipronil	0.000	0.836	0.860	0.800	2.9%	< 30	104.5%	107.5%	50 - 150	
Flonicamid	0.000	1.239	1.056	1.000	15.9%	< 30	123.9%	105.6%	50 - 150	
Fludioxonil	0.000	0.823	0.773	0.800	6.3%	< 30	102.9%	96.7%	50 - 150	
Hexythiazox	0.000	1.092	1.077	1.000	1.4%	< 30	109.2%	107.7%	50 - 150	
Imazalil	0.004	0.500	0.486	0.400	2.8%	< 30	123.9%	120.5%	50 - 150	
Imidacloprid	0.000	0.820	0.827	0.800	0.9%	< 30	102.4%	103.4%	50 - 150	
Kresoxim-Methyl	0.000	0.830	0.797	0.800	4.1%	< 30	103.8%	99.6%	50 - 150	
Malathion	0.000	0.446	0.467	0.400	4.7%	< 30	111.4%	116.8%	50 - 150	
Metaxyl	0.000	0.406	0.393	0.400	3.2%	< 30	101.4%	98.2%	50 - 150	
Methiocarb	0.000	0.426	0.409	0.400	4.1%	< 30	106.5%	102.2%	50 - 150	
Methomyl	0.000	0.878	0.804	0.800	8.8%	< 30	109.7%	100.4%	50 - 150	
MGK 264	0.000	0.400	0.411	0.400	2.6%	< 30	100.0%	102.7%	50 - 150	
Myclobutanil	0.000	0.436	0.450	0.400	3.0%	< 30	109.1%	112.4%	50 - 150	
Naled	0.000	0.955	0.953	1.000	0.2%	< 30	95.5%	95.3%	50 - 150	
Oxamyl	0.000	2.092	1.901	2.000	9.6%	< 30	104.6%	95.1%	50 - 150	
Paclobutrazol	0.000	0.825	0.812	0.800	1.6%	< 30	103.2%	101.5%	50 - 150	
Parathion Methyl	0.000	0.740	0.770	0.800	4.0%	< 30	92.5%	96.3%	30 - 150	
Permethrin	0.000	0.375	0.361	0.400	3.8%	< 30	93.7%	90.2%	50 - 150	
Phosmet	0.000	0.407	0.412	0.400	1.4%	< 30	101.6%	103.1%	50 - 150	
Piperonyl butoxide	0.000	2.195	2.204	2.000	0.4%	< 30	109.7%	110.2%	50 - 150	
Prallethrin	0.000	0.420	0.397	0.400	5.8%	< 30	105.1%	99.2%	50 - 150	
Propiconazole	0.000	0.777	0.765	0.800	1.6%	< 30	97.1%	95.6%	50 - 150	
Propoxur	0.000	0.409	0.391	0.400	4.5%	< 30	102.3%	97.8%	50 - 150	
Pyrethrins	0.000	0.358	0.363	0.413	1.3%	< 30	86.7%	87.8%	50 - 150	
Pyridaben	0.000	0.425	0.431	0.400	1.3%	< 30	106.3%	107.7%	50 - 150	
Spinosad	0.000	0.502	0.480	0.388	4.5%	< 30	129.4%	123.6%	50 - 150	
Spiromesifen	0.000	0.355	0.291	0.400	20.0%	< 30	88.8%	72.7%	50 - 150	
Spirotetramat	0.000	0.389	0.403	0.400	3.6%	< 30	97.2%	100.8%	50 - 150	
Spiroxamine	0.000	0.790	0.779	0.800	1.4%	< 30	98.8%	97.4%	50 - 150	
Tebuconazol	0.000	0.817	0.791	0.800	3.2%	< 30	102.1%	98.8%	50 - 150	
Thiacloprid	0.000	0.416	0.410	0.400	1.4%	< 30	103.9%	102.5%	50 - 150	
Thiamethoxam	0.000	0.466	0.448	0.400	4.0%	< 30	116.5%	111.9%	50 - 150	
Trifloxystrobin	0.000	0.405	0.405	0.400	0.1%	< 30	101.1%	101.2%	50 - 150	



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



Report Number: 22-000807/D003.R000
Report Date: 02/02/2022
ORELAP#: OR100028
Purchase Order: 210020
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Laboratory Quality Control Results									
Residual Solvents					Batch ID: 2200717				
Method Blank			Laboratory Control Sample						
Analyte	Result	LOQ	Notes	Result	Spike	Units	% Rec	Limits	Notes
Propane	ND	< 200		441	401	µg/g	110.0	70	130
Isobutane	ND	< 200		502	498	µg/g	100.8	70	130
Butane	ND	< 200		501	493	µg/g	101.6	70	130
2,2-Dimethylpropane	ND	< 200		741	628	µg/g	118.0	70	130
Methanol	ND	< 200		1690	1610	µg/g	105.0	70	130
Ethylene Oxide	ND	< 30		41.2	37.2	µg/g	110.8	70	130
2-Methylbutane	ND	< 200		1680	1630	µg/g	103.1	70	130
Pentane	ND	< 200		1730	1610	µg/g	107.5	70	130
Ethanol	ND	< 200		1600	1630	µg/g	98.2	70	130
Ethyl Ether	ND	< 200		1650	1610	µg/g	102.5	70	130
2,2-Dimethylbutane	ND	< 30		191	165	µg/g	115.8	70	130
Acetone	ND	< 200		1760	1610	µg/g	109.3	70	130
2-Propanol	ND	< 200		1780	1610	µg/g	110.6	70	130
Acetonitrile	ND	< 100		619	498	µg/g	124.3	70	130
2,3-Dimethylbutane	ND	< 30		197	162	µg/g	121.6	70	130
Dichloromethane	ND	< 60		545	498	µg/g	109.4	70	130
2-Methylpentane	ND	< 30		189	167	µg/g	113.2	70	130
3-Methylpentane	ND	< 30		199	179	µg/g	111.2	70	130
Hexane	ND	< 30		168	164	µg/g	102.4	70	130
Ethyl acetate	ND	< 200		1710	1620	µg/g	105.6	70	130
2-Butanol	ND	< 200		1760	1600	µg/g	110.0	70	130
Tetrahydrofuran	ND	< 100		544	500	µg/g	108.8	70	130
Cyclohexane	ND	< 200		1680	1610	µg/g	104.3	70	130
Benzene	ND	< 1		6.13	5.62	µg/g	109.1	70	130
Isopropyl Acetate	ND	< 200		1800	1610	µg/g	111.8	70	130
Heptane	ND	< 200		1860	1610	µg/g	115.5	70	130
1,4-Dioxane	ND	< 100		596	502	µg/g	118.7	70	130
2-Ethoxyethanol	ND	< 30		212	164	µg/g	129.3	70	130
Ethylene Glycol	ND	< 200		643	502	µg/g	128.1	70	130
Toluene	ND	< 200		562	488	µg/g	115.2	70	130
Ethylbenzene	ND	< 200		1140	965	µg/g	118.1	70	130
m,p-Xylene	ND	< 200		1220	990	µg/g	123.2	70	130
o-Xylene	ND	< 200		1200	971	µg/g	123.6	70	130
Cumene	ND	< 30		220	179	µg/g	122.9	70	130



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



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QC - Sample Duplicate Sample ID: 22-000807-0016

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	367	383	200	µg/g	4.3	< 20	Acceptable	
Acetonitrile	ND	ND	100	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	
3-Methylpentane	ND	ND	30	µg/g	0.0	< 20	Acceptable	
Hexane	ND	ND	30	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	
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	
1,4-Dioxane	ND	ND	100	µg/g	0.0	< 20	Acceptable	
2-Ethoxyethanol	ND	ND	30	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	
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	

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

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Legacy ID: CFL-E57Worksheet Validated 11/04/2020

Terpenes Quality Control Results

Method Reference: EPA 5035				Batch ID: 2200842					
Method Blank				Laboratory Control Sample					
Analyte	Result	LOQ	Notes	Result	LCS	Units	LCS % Rec	Limits	Notes
a-pinene	<LOQ	< 200		402	500	µg/g	80%	70 - 130	
Camphene	<LOQ	< 200		405	500	µg/g	81%	70 - 130	
Sabinene	<LOQ	< 200		426	500	µg/g	85%	70 - 130	
b-Pinene	<LOQ	< 200		417	500	µg/g	83%	70 - 130	
b-Myrcene	<LOQ	< 200		434	500	µg/g	87%	70 - 130	
a-phellandrene	<LOQ	< 200		397	500	µg/g	79%	70 - 130	
d-3-Carene	<LOQ	< 200		404	500	µg/g	81%	70 - 130	
a-Terpinene	<LOQ	< 200		410	500	µg/g	82%	70 - 130	
p-Cymene	<LOQ	< 200		393	500	µg/g	79%	70 - 130	
D-Limonene	<LOQ	< 200		406	500	µg/g	81%	70 - 130	
Eucalyptol	<LOQ	< 200		378	500	µg/g	76%	70 - 130	
b-cis-Ocimene	<LOQ	< 67		130	167	µg/g	78%	70 - 130	
b-trans-Ocimene	<LOQ	< 133		256	333	µg/g	77%	70 - 130	
g-Terpinene	<LOQ	< 200		402	500	µg/g	80%	70 - 130	
Sabinene_Hydrate	<LOQ	< 200		381	500	µg/g	76%	70 - 130	
Terpinolene	<LOQ	< 200		404	500	µg/g	81%	70 - 130	
D-Fenchone	<LOQ	< 200		403	500	µg/g	81%	70 - 130	
Linalool	<LOQ	< 200		378	500	µg/g	76%	70 - 130	
Fenchol	<LOQ	< 200		372	500	µg/g	74%	70 - 130	
Camphor	<LOQ	< 200		381	500	µg/g	76%	70 - 130	
Isopulego	<LOQ	< 200		392	500	µg/g	78%	70 - 130	
Isoborneol	<LOQ	< 200		393	500	µg/g	79%	70 - 130	
Borneol	<LOQ	< 200		367	500	µg/g	73%	70 - 130	
DL-Menthol	<LOQ	< 200		383	500	µg/g	77%	70 - 130	
Terpineol	<LOQ	< 200		361	500	µg/g	72%	70 - 130	
Nerol	<LOQ	< 200		394	500	µg/g	79%	70 - 130	
Pulegone	<LOQ	< 200		365	500	µg/g	73%	70 - 130	
Geraniol	<LOQ	< 200		355	500	µg/g	71%	70 - 130	
Geranyl_Acetate	<LOQ	< 200		393	500	µg/g	79%	70 - 130	
a-Cedrene	<LOQ	< 200		386	500	µg/g	77%	70 - 130	
b-Caryophyllene	<LOQ	< 200		401	500	µg/g	80%	70 - 130	
a-Humulene	<LOQ	< 200		412	500	µg/g	82%	70 - 130	
Valenene	<LOQ	< 200		394	500	µg/g	79%	70 - 130	
cis-Nerolidol	<LOQ	< 200		416	500	µg/g	83%	70 - 130	
a-Farnesene	<LOQ	< 200		408	500	µg/g	82%	70 - 130	
trans-Nerolidol	<LOQ	< 200		391	500	µg/g	78%	70 - 130	
Caryophyllene_Oxide	<LOQ	< 200		457	500	µg/g	91%	70 - 130	
Guaiol	<LOQ	< 200		389	500	µg/g	78%	70 - 130	
Cedrol	<LOQ	< 200		410	500	µg/g	82%	70 - 130	
a-Bisabolol	<LOQ	< 200		406	500	µg/g	81%	70 - 130	

Definitions

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



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



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Terpenes Quality Control Results

Method Reference: EPA 5035		Batch ID: 2200842					
Sample/Sample Duplicate		Sample ID: 22-000807-0016					
Analyte	Result	Org. Result	LOQ	Units	% RPD	LIMIT	Notes
a-pinene	1030	1050	188	µg/g	2%	< 20	
Camphene	194	193	188	µg/g	1%	< 20	
Sabinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
b-Pinene	1200	1200	188	µg/g	0%	< 20	
b-Myrcene	3060	3120	188	µg/g	2%	< 20	
a-phellandrene	<LOQ	<LOQ	188	µg/g	0%	< 20	
d-3-Carene	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Terpinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
p-Cymene	1460	1470	188	µg/g	1%	< 20	
D-Limonene	7290	7360	188	µg/g	1%	< 20	
Eucalyptol	<LOQ	<LOQ	188	µg/g	0%	< 20	
b-cis-Ocimene	<LOQ	<LOQ	62.7	µg/g	0%	< 20	
b-trans-Ocimene	<LOQ	<LOQ	125	µg/g	0%	< 20	
g-Terpinene	<LOQ	<LOQ	188	µg/g	0%	< 20	
Sabinene_Hydrate	<LOQ	<LOQ	188	µg/g	0%	< 20	
Terpinolene	<LOQ	<LOQ	188	µg/g	0%	< 20	
D-Fenchone	<LOQ	<LOQ	188	µg/g	0%	< 20	
Linalool	2580	2580	188	µg/g	0%	< 20	
Fenchol	557	556	188	µg/g	0%	< 20	
Camphor	<LOQ	<LOQ	188	µg/g	0%	< 20	
Isopulego	<LOQ	<LOQ	188	µg/g	0%	< 20	
Isoborneol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Borneol	<LOQ	<LOQ	188	µg/g	0%	< 20	
DL-Menthol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Terpineol	357	354	188	µg/g	1%	< 20	
Nerol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Pulegone	<LOQ	<LOQ	188	µg/g	0%	< 20	
Geraniol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Geranyl_Acetate	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Cedrene	<LOQ	<LOQ	188	µg/g	0%	< 20	
b-Caryophyllene	10300	10400	188	µg/g	1%	< 20	
a-Humulene	3510	3510	188	µg/g	0%	< 20	
Valenene	2150	2160	188	µg/g	0%	< 20	
cis-Nerolidol	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Farnesene	<LOQ	<LOQ	188	µg/g	0%	< 20	
trans-Nerolidol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Caryophyllene_Oxide	<LOQ	<LOQ	188	µg/g	0%	< 20	
Guaiol	<LOQ	<LOQ	188	µg/g	0%	< 20	
Cedrol	<LOQ	<LOQ	188	µg/g	0%	< 20	
a-Bisabolol	992	993	188	µg/g	0%	< 20	

Definitions

RPD Relative Percent Difference



12423 NE Whitaker Way
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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.