



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



Report Number: 20-013002/D06.R00
Report Date: 12/04/2020
ORELAP#: OR100028
Purchase Order:
Received: 11/25/20 10:53

Customer:
Product identity: KCICBDA-20325
Client/Metric ID: .
Laboratory ID: 20-013002-0002

Sample Date: 11/24/20 12:00

Summary

Potency:

Analyte	Result (%)			
CBD-A	> 98.0		CBD-Total	93.7%
CBD	0.752		THC-Total	<LOQ
CBDV-A†	0.632		(Reported in percent of total sample)	
CBG-A†	0.584			

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Less than LOQ for all analytes.

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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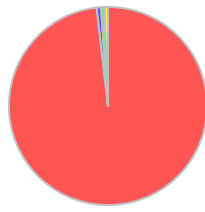
Customer:

Product identity: KCICBDA-20325
Client/Metric ID: .
Sample Date: 11/24/20 12:00
Laboratory ID: 20-013002-0002
Relinquished by: FEDEX
Temp: 14.1 °C

Sample Results

Potency **Method J AOAC 2015 V98-6 (mod) Batch: 2010101 Analyze: 12/3/20 4:47:00 AM**

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0969	
CBC-A†	< LOQ		0.0969	
CBC-Total†	< LOQ		0.182	
CBD	0.752		0.0969	
CBD-A	> 98.0		0.969	
CBD-Total	93.7		0.947	
CBDV†	< LOQ		0.0969	
CBDV-A†	0.632		0.0969	
CBDV-Total†	0.548		0.181	
CBG†	< LOQ		0.0969	
CBG-A†	0.584		0.0969	
CBG-Total	0.513		0.181	
CBL†	< LOQ		0.0969	
CBN	< LOQ		0.0969	
Δ8-THC†	< LOQ		0.0969	
Δ9-THC	< LOQ		0.0969	
THC-A	< LOQ		0.0969	
THC-Total	< LOQ		0.182	
THCV†	< LOQ		0.0969	
THCV-A†	< LOQ		0.0969	
THCV-Total†	< LOQ		0.181	
Total Cannabinoids†	> 98.0			



- CBD-A
- CBD
- CBDV-A
- CBG-A

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
E.coli	< LOQ		cfu/g	10	2009901	12/01/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	< LOQ		cfu/g	10	2009901	12/01/20	AOAC 991.14 (Petrifilm)	X
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2009903	12/01/20	AOAC 2014.05 (RAPID)	X
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2009903	12/01/20	AOAC 2014.05 (RAPID)	X

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 333-007-0390 OAR 333-007-0410 OAR 333-007-0430



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Solvents		Method EPA5021A				Units µg/g	Batch 2009881	Analyze 11/25/20 12:06 PM			
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	< LOQ		200		
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA)	< LOQ	5000	200	pass	
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane	< 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	30.0	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	200	pass	
Isopropylbenzene	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200		
Methanol	< LOQ	3000	200	pass		Methylene chloride	< LOQ	600	200	pass	
Methylpropane	< 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	< LOQ	2170	600	pass	



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2009973 Analyze 12/01/20 12:14 PM											
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 2009912	Analyze 11/30/20 09:36 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
(-)-a-Terpineol [†]	< LOQ	0.020	0.00%		(-)-caryophyllene oxide [†]	< LOQ	0.020	0.00%	
(-)-Guaiol [†]	< LOQ	0.020	0.00%		(-)-Isopulegol [†]	< LOQ	0.020	0.00%	
(-)-β-Pinene [†]	< LOQ	0.020	0.00%		(+)-Borneol [†]	< LOQ	0.020	0.00%	
(+)-Cedrol [†]	< LOQ	0.020	0.00%		(+)-fenchol [†]	< LOQ	0.020	0.00%	
(+)-Pulegone [†]	< LOQ	0.020	0.00%		(±)-Camphor [†]	< LOQ	0.020	0.00%	
(±)-cis-Nerolidol [†]	< LOQ	0.020	0.00%		(±)-fenchone [†]	< LOQ	0.020	0.00%	
(±)-trans-Nerolidol [†]	< LOQ	0.020	0.00%		(R)-(+)-Limonene [†]	< LOQ	0.020	0.00%	
a-Bisabolol [†]	< LOQ	0.020	0.00%		a-cedrene [†]	< LOQ	0.020	0.00%	
a-phellandrene [†]	< LOQ	0.020	0.00%		a-pinene [†]	< LOQ	0.020	0.00%	
a-Terpinene [†]	< LOQ	0.020	0.00%		Camphene [†]	< LOQ	0.020	0.00%	
cis-β-Ocimene [†]	< LOQ	0.006	0.00%		d-3-Carene [†]	< LOQ	0.020	0.00%	
Eucalyptol [†]	< LOQ	0.020	0.00%		farnesene [†]	< LOQ	0.020	0.00%	
gamma-Terpinene [†]	< LOQ	0.020	0.00%		Geraniol [†]	< LOQ	0.020	0.00%	
Geranyl acetate [†]	< LOQ	0.020	0.00%		Humulene [†]	< LOQ	0.020	0.00%	
Isoborneol [†]	< LOQ	0.020	0.00%		Linalool [†]	< LOQ	0.020	0.00%	
Menthol [†]	< LOQ	0.020	0.00%		nerol [†]	< LOQ	0.020	0.00%	
p-Cymene [†]	< LOQ	0.020	0.00%		Sabinene [†]	< LOQ	0.020	0.00%	
Sabinene hydrate [†]	< LOQ	0.020	0.00%		β-Caryophyllene [†]	< LOQ	0.020	0.00%	
β-Myrcene [†]	< LOQ	0.020	0.00%		Terpinolene [†]	< LOQ	0.020	0.00%	
trans-β-Ocimene [†]	< LOQ	0.013	0.00%		valencene [†]	< LOQ	0.020	0.00%	
Total Terpenes	< LOQ								

Metals									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Arsenic	< LOQ		mg/kg	0.0449	2010037	12/02/20	AOAC 2013.06 (mod.)	X	
Cadmium	< LOQ		mg/kg	0.0449	2010037	12/02/20	AOAC 2013.06 (mod.)	X	
Lead	< LOQ		mg/kg	0.0449	2010037	12/02/20	AOAC 2013.06 (mod.)	X	
Mercury	< LOQ		mg/kg	0.0225	2010037	12/02/20	AOAC 2013.06 (mod.)	X	

Mycotoxins									
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes	
Aflatoxin B1 [†]	< LOQ		µg/kg	5.00	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Aflatoxin B2 [†]	< LOQ		µg/kg	5.00	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Aflatoxin G1 [†]	< LOQ		µg/kg	5.00	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Aflatoxin G2 [†]	< LOQ		µg/kg	5.00	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Deoxynivalenol [†]	< LOQ		µg/kg	200	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Fumonisin B1 [†]	< LOQ		µg/kg	200	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Fumonisin B2 [†]	< LOQ		µg/kg	200	2010061	12/03/20	AOAC 2007.01 & EN 15662		
HT2-Toxin [†]	< LOQ		µg/kg	40.0	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Nivalenol [†]	< LOQ		µg/kg	400	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Ochratoxin A [†]	< LOQ		µg/kg	5.00	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Ochratoxin B [†]	< LOQ		µg/kg	2.00	2010061	12/03/20	AOAC 2007.01 & EN 15662		
T2-Toxin [†]	< LOQ		µg/kg	20.0	2010061	12/03/20	AOAC 2007.01 & EN 15662		
Zearalenone [†]	< LOQ		µg/kg	200	2010061	12/03/20	AOAC 2007.01 & EN 15662		



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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

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