



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



Report Number: 21-000714/D04.R00
Report Date: 01/28/2021
ORELAP#: OR100028
Purchase Order:
Received: 01/21/21 09:11

Customer:
Product identity: 817-46-1
Client/Metric ID: .
Laboratory ID: 21-000714-0005

Sample Date: 01/20/21

Summary

Potency:

Analyte	Result (%)		
Δ8-THC†	95.2		
			CBD-Total <LOQ THC-Total <LOQ (Reported in percent of total sample)

Residual Solvents:

Analyte	Result (µg/g)	Limits (µg/g)	Status
n-Heptane	231	5000	pass

Pesticides:

All analytes passing and less than LOQ.



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Customer:

Product identity: 817-46-1
Client/Metric ID: .
Sample Date: 01/20/21
Laboratory ID: 21-000714-0005
Relinquished by: FEDEX
Temp: 17.8 °C

Sample Results

Potency Method J AOAC 2015 V98-6 (mod) Batch: 2100775 Analyze: 1/26/21 1:00:00 AM

Analyte	As Received	Dry weight	LOQ	Notes
CBC	< LOQ		0.0884	
CBC-A [†]	< LOQ		0.0884	
CBC-Total [†]	< LOQ		0.166	
CBD	< LOQ		0.0884	
CBD-A	< LOQ		0.0884	
CBD-Total	< LOQ		0.166	
CBDV [†]	< LOQ		0.0884	
CBDV-A [†]	< LOQ		0.0884	
CBDV-Total [†]	< LOQ		0.165	
CBG [†]	< LOQ		0.0884	
CBG-A [†]	< LOQ		0.0884	
CBG-Total	< LOQ		0.165	
CBL [†]	< LOQ		0.0884	
CBN	< LOQ		0.0884	
Δ8-THC [†]	95.2		0.884	
Δ9-THC	< LOQ		0.0884	
THC-A	< LOQ		0.0884	
THC-Total	< LOQ		0.166	
THCV [†]	< LOQ		0.0884	
THCV-A [†]	< LOQ		0.0884	
THCV-Total [†]	< LOQ		0.165	
Total Cannabinoids[†]	95.2			



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 333-007-0410 OAR 333-007-0430



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Solvents					Method EPA5021A	Units µg/g	Batch 2100608	Analyze 01/21/21 01:57 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-Dimethy butane	< LOQ		30.0			2,2-Dimethylpropane	< LOQ		200		
2,3-Dimethy butane	< 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	
Isopropy benzene	< 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	231	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 2100796 Analyze 01/27/21 02:28 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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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

µg/g = Microgram per gram

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

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager

www.columbialaboratories.com

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Testing in accordance with: OAR 333-007-0400 OAR 333-007-0410 OAR 333-007-0430

Bubba Kush

Sample ID: 2011CSALA3184.8029

Matrix: Other

Type: Industrial Hemp Testing

Sample Size: 13 grams

County Sample ID:

Produced: N/A

Collected: 11/11/2020

Received: 11/11/2020

Completed: 11/18/2020

Physical Address:

Sampler:

Sample Received By:

Sample Tested By: Grant Sullivan

Whole Organix LLC

Registration #:

Registrant Name:

Registrant Contact #:



Summary

22.2443% Total Cannabinoids	Tested Pesticides	Not Tested Residual Solvents
Tested Microbials	Tested Mycotoxins	Tested Heavy Metals

Cannabinoids

Testing method: HPLC-SOP 101

Analyte	LOD	LOQ	Results	Results
	mg/g	mg/g	%	mg/g
CBDa	0.0012	0.0037	20.9678	209.6782
THCa	0.002	0.006	0.6944	6.9444
CBD	0.0059	0.018	0.2674	2.6743
CBGa	0.0016	0.005	0.2401	2.4015
CBG	0.0047	0.0143	0.0457	0.4574
CBC	0.0009	0.0027	0.0287	0.2869
CBDV	0.0042	0.0126	ND	ND
CBN	0.0014	0.0041	ND	ND
THCV	0.0036	0.0111	ND	ND
Δ8-THC	0.0038	0.0115	ND	ND
Δ9-THC	0.0038	0.0115	ND	ND
Total			22.2443	222.4427

ND
Δ9-THC
18.6562%
Total CBD

Date Tested: 11/12/2020

Total CBD = CBDa * 0.877 + CBD

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected. The reported result is based on a sample weight with the applicable moisture content for that sample;

Terpenes

Testing method: HS-GC-FID - SOP 201

Analyte	LOD	LOQ	Results	Results
	%	%	%	mg/g
β-Caryophyllene	0.006	0.0173	0.39	3.87
δ-Limonene	0.005	0.0159	0.33	3.30
β-Myrcene	0.008	0.024	0.15	1.50
α-Bisabolol	0.01	0.0295	0.14	1.39
Linalool	0.008	0.0228	0.12	1.20
α-Humulene	0.006	0.0173	0.11	1.08
Caryophyllene Oxide	0.029	0.0874	<LOQ	<LOQ
β-Pinene	0.005	0.0147	0.05	0.51
trans-Nerolidol	0.007	0.0219	0.03	0.34
α-Pinene	0.006	0.0175	0.03	0.28
Terpinolene	0.006	0.0168	<LOQ	<LOQ
Camphene	0.005	0.0163	ND	ND
Eucalyptol	0.006	0.0175	ND	ND
Geraniol	0.007	0.0205	ND	ND
Guaiol	0.011	0.0334	ND	ND
Isopulegol	0.009	0.0282	ND	ND
Ocimene	0.004	0.0109	ND	ND
p-Cymene	0.005	0.0162	ND	ND
α-Terpinene	0.005	0.0165	ND	ND
γ-Terpinene	0.006	0.0168	ND	ND
δ-3-Carene	0.005	0.016	ND	ND
Total			1.35	13.47

Date Tested: 11/16/2020

10.3% Moisture Moisture Analyzer SOP-103 Date Tested: 11/13/2020	Tested 0.540 aw Water Activity Water Activity Meter SOP-102 Date Tested: 11/16/2020	Tested Foreign Matter Visual Inspection SOP-600 Date Tested: 11/13/2020
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 ISO / IEC 17025:2017 ACCREDITED
 LABORATORY
 Accreditation No. 73653



 Douglas Duncan
 Lab Director
 11/18/2020



 Cecilia Melgar
 COA Review
 11/18/2020

Bubba Kush

Sample ID: 2011CSALA3184.8029

Matrix: Other

Type: Industrial Hemp Testing

Sample Size: 13 grams

County Sample ID:

Produced: N/A

Collected: 11/11/2020

Received: 11/11/2020

Completed: 11/18/2020

Physical Address:

Sampler:

Sample Received By:

Sample Tested By: Grant Sullivan

Whole Organix LLC

Registration #:

Registrant Name:

Registrant Contact #:

Pesticides

Testing method: LCMS & GCMS-SOP 301 and 302

Tested

Analyte	LOD	LOQ	Results	Analyte	LOD	LOQ	Results
	µg/g	µg/g	µg/g		µg/g	µg/g	µg/g
Abamectin	0.0009	0.003	ND	Fludioxonil	0.0143	0.048	ND
Acephate	0.005	0.017	ND	Hexythiazox	0.0237	0.079	ND
Acequinocyl	0.0193	0.064	ND	Imazalil *	0.0077	0.026	ND
Acetamiprid	0.0073	0.024	ND	Imidacloprid	0.0053	0.018	ND
Aldicarb *	0.0094	0.031	ND	Kresoxim Methyl	0.0182	0.061	ND
Azoxystrobin	0.015	0.05	ND	Malathion	0.015	0.05	ND
Bifenazate	0.0129	0.043	ND	Metalaxyl	0.0076	0.025	ND
Bifenthrin	0.029	0.097	ND	Methiocarb *	0.0103	0.034	ND
Boscalid	0.0172	0.058	ND	Methomyl	0.0109	0.036	ND
Captan	0.036	0.12	ND	Methyl Parathion *	0.0091	0.0303	ND
Carbaryl	0.0542	0.181	ND	Mevinphos *	0.0041	0.014	ND
Carbofuran *	0.0077	0.026	ND	Myclobutanil	0.01	0.033	ND
Chlorantraniliprole	0.0095	0.032	ND	Naled	0.0107	0.036	ND
Chlordane *	0.0055	0.0182	ND	Oxamyl	0.0071	0.024	ND
Chlorfenapyr *	0.0048	0.0159	ND	Paclobutrazol *	0.0092	0.031	ND
Chlorpyrifos *	0.0197	0.066	ND	Pentachloronitrobenzene	0.0084	0.0279	ND
Clofentezine	0.0216	0.072	ND	Permethrin	0.0142	0.048	ND
Coumaphos *	0.0196	0.065	ND	Phosmet	0.0138	0.046	ND
Cyfluthrin	0.0107	0.036	ND	Piperonyl Butoxide	0.0156	0.052	ND
Cypermethrin	0.0105	0.035	ND	Prallethrin	0.018	0.06	ND
Daminozide *	0.0052	0.017	ND	Propiconazole	0.013	0.043	ND
DDVP *	0.0081	0.027	ND	Propoxur *	0.0097	0.033	ND
Diazinon	0.0134	0.045	ND	Pyrethrins	0.0025	0.008	ND
Dimethoate *	0.0083	0.028	ND	Pyridaben	0.0236	0.079	ND
Dimethomorph	0.0025	0.008	ND	Spinetoram	0.0042	0.014	ND
Ethoprophos *	0.0112	0.037	ND	Spinosad	0.0002	0.001	ND
Etofenprox *	0.0247	0.082	ND	Spiromesifen	0.0199	0.066	ND
Etoxazole	0.0269	0.09	ND	Spirotetramat	0.0068	0.023	ND
Fenhexamid	0.0215	0.072	ND	Spiroxamine *	0.0065	0.022	ND
Fenoxycarb *	0.0186	0.062	ND	Tebuconazole	0.0099	0.033	ND
Fenpyroximate	0.0253	0.084	ND	Thiacloprid *	0.0094	0.031	ND
Fipronil *	0.0228	0.076	ND	Thiamethoxam	0.005	0.017	ND
Flonicamid	0.0073	0.024	ND	Trifloxystrobin	0.0192	0.064	ND

Date Tested: 11/17/2020

* Denotes Category I pesticides, which fail when detected; LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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 Douglas Duncan
 Lab Director
 11/18/2020

 Cecilia Melgar
 COA Review
 11/18/2020

Bubba Kush

Sample ID: 2011CSALA3184.8029

Matrix: Other

Type: Industrial Hemp Testing

Sample Size: 13 grams

County Sample ID:

Produced: N/A

Collected: 11/11/2020

Received: 11/11/2020

Completed: 11/18/2020

Physical Address:

Sampler:

Sample Received By:

Sample Tested By: Grant Sullivan

Whole Organix LLC

Registration #:

Registrant Name:

Registrant Contact #:

Microbials

Testing method: PCR-SOP 401

Tested

Analyte

Result

Aspergillus flavus	Not Detected
Aspergillus fumigatus	Not Detected
Aspergillus niger	Not Detected
Aspergillus terreus	Not Detected
Salmonella	Not Detected
Shiga toxin-producing E. Coli	Not Detected

Date Tested: 11/16/2020

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Mycotoxins

Testing method: LCMS-SOP 301

Tested

Analyte

LOD

LOQ

Results

Analyte	LOD	LOQ	Results
	µg/kg	µg/kg	µg/kg
Aflatoxin B1	0.0036	0.012	ND
Aflatoxin B2	0.0092	0.031	ND
Aflatoxin G1	0.0058	0.019	ND
Aflatoxin G2	0.0034	0.011	ND
Total Aflatoxins			ND
Ochratoxin A	0.0113	0.038	ND

Date Tested: 11/17/2020

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.

Heavy Metals

Testing method: ICPMS-SOP 502

Tested

Analyte

LOD

LOQ

Results

Analyte	LOD	LOQ	Results
	µg/g	µg/g	µg/g
Arsenic	0.006	0.018	0.2
Cadmium	0.003	0.011	0.013
Lead	0.003	0.009	0.3
Mercury	0.01	0.033	ND

Date Tested: 11/16/2020

LOQ = Limit of Quantitation; LOD = Limit of Detection; NT = Not Tested; ND = Not Detected.


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 Lab Director
 11/18/2020

 Cecilia Melgar
 COA Review
 11/18/2020



VFS Labs Potency Report

CERTIFICATE OF ANALYSIS

Strain: KIEF A
Batch #: KIEF A
Moisture Content: NA
Date Tested: 1/14/20201
Report Generated: 1/14/20201

CBDA =
26.50%

CBD =
0.00%

Total CBD
23.24%

THCA =
1.08%

D9-THC =
0.00%

Total THC
0.94%

CBN=
0.00%

Jim Eitzen CSO

1/14/20201

DATE



VFS, LLC / VFS Labs
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