



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



**Report Number:** 20-005353/D02.R01  
**Report Date:** 06/05/2020  
**ORELAP#:** OR100028  
**Purchase Order:**  
**Received:** 05/26/20 10:55

This is an amended version of report# 20-005353/D02.R00.  
 Reason: Updated report formatting.

**Customer:** VFS Labs, LLC  
 2748 NE Cherry Lane  
 Madras Oregon 97741  
 United States

**Product identity:** CBDA-Batch JF\_CBDA 5 8

**Client/Metric ID:** .

**Sample Date:** 05/22/20

**Laboratory ID:** 20-005353-0001

**Temp:** 22 °C

**Relinquished by:** UPS

### Sample Results

Purity								
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
CBD-A	93.7		%		2004630	06/03/20	Purity by FID	± 0.3%(w/w)

Mass-balance purity assay performed by GC-FID. Identification of the main component as CBD-A was confirmed by the HPLC potency method referencing J AOAC 2015 V98-6.

Potency					Method J AOAC 2015 V98-6 (mod)	Batch: 2004552	Analyze: 6/2/20 6:23:00 AM
Analyte	As Received	Dry weight	LOQ	Notes			
CBD	1.27		0.0099				
Δ9-THC	< LOQ		0.0099				
THC-A	0.0287		0.0099				
THC-Total	0.0252		0.0252				
CBC-A†	0.0652		0.0099				
CBDV†	< LOQ		0.0099				
CBDV-A†	0.625		0.0099				
CBC	< LOQ		0.0099				
CBG†	< LOQ		0.0099				
CBG-A†	0.819		0.0099				
CBL†	< LOQ		0.0099				
CBN	< LOQ		0.0099				
Δ8-THC†	< LOQ		0.0099				
THCV†	< LOQ		0.0099				
THCV-A†	< LOQ		0.0099				

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Solvents		Method EPA5021A				Units µg/g	Batch 2004440	Analyze 06/01/20 11:56 AM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
1,4-Dioxane	< LOQ	380	0.000	pass		2-Butanol	< LOQ	5000	0.000	pass	
2-Ethoxyethanol	< LOQ	160	0.000	pass		2-Methylbutane	< LOQ		0.000		
2-Methylpentane	< LOQ		0.000			2-Propanol (IPA)	< LOQ	5000	0.000	pass	
2,2-Dimethylbutane	< LOQ		0.000			2,2-Dimethylpropane	< LOQ		0.000		
2,3-Dimethylbutane	< LOQ		0.000			3-Methylpentane	< LOQ		0.000		
Acetone	< LOQ	5000	0.000	pass		Acetonitrile	< LOQ	410	0.000	pass	
Benzene	< LOQ	2.00	0.000	pass		Butanes (sum)	< LOQ	5000	400	pass	
Cyclohexane	< LOQ	3880	0.000	pass		Ethyl acetate	< LOQ	5000	0.000	pass	
Ethyl benzene	< LOQ		0.000			Ethyl ether	< LOQ	5000	0.000	pass	
Ethylene glycol	< LOQ	620	0.000	pass		Ethylene oxide	< LOQ	50.0	0.000	pass	
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate	< LOQ	5000	0.000	pass	
Isopropylbenzene	< LOQ	70.0	0.000	pass		m,p-Xylene	< LOQ		0.000		
Methanol	< LOQ	3000	0.000	pass		Methylene chloride	< LOQ	600	0.000	pass	
Methylpropane	< LOQ		0.000			n-Butane	< LOQ		0.000		
n-Heptane	< LOQ	5000	0.000	pass		n-Hexane	< LOQ		0.000		
n-Pentane	< LOQ		0.000			o-Xylene	< LOQ		0.000		
Pentanes (sum)	< LOQ	5000	600	pass		Propane	< LOQ	5000	0.000	pass	
Tetrahydrofuran	< LOQ	720	0.000	pass		Toluene	< LOQ	890	0.000	pass	
Total Xylenes	< LOQ		400			Total Xylenes and Ethyl	< LOQ	2170	600	pass	

**Microbiology**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2004377	05/29/20	AOAC 990.12 (Petrifilm)	X
E. coli	< LOQ		cfu/g	10	2004378	05/29/20	AOAC 991.14 (Petrifilm)	X
Total Coliforms	50		cfu/g	10	2004378	05/29/20	AOAC 991.14 (Petrifilm)	X

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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2004486 Analyze 05/29/20 01:09 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.50	0.000	pass		Acephate	< LOQ	0.40	0.000	pass	
Acequinocyl	< LOQ	2.0	0.000	pass		Acetamiprid	< LOQ	0.20	0.000	pass	
Aldicarb	< LOQ	0.40	0.000	pass		Azoxystrobin	< LOQ	0.20	0.000	pass	
Bifenazate	< LOQ	0.20	0.000	pass		Bifenthrin	< LOQ	0.20	0.000	pass	
Boscalid	< LOQ	0.40	0.000	pass		Carbaryl	< LOQ	0.20	0.000	pass	
Carbofuran	< LOQ	0.20	0.000	pass		Chlorantraniliprole	< LOQ	0.20	0.000	pass	
Chlorfenapyr	< LOQ	1.0	0.000	pass		Chlorpyrifos	< LOQ	0.20	0.000	pass	
Clofentezine	< LOQ	0.20	0.000	pass		Cyfluthrin	< LOQ	1.0	0.000	pass	
Cypermethrin	< LOQ	1.0	0.000	pass		Daminozide	< LOQ	1.0	0.000	pass	
Diazinon	< LOQ	0.20	0.000	pass		Dichlorvos	< LOQ	1.0	0.000	pass	
Dimethoate	< LOQ	0.20	0.000	pass		Ethoprophos	< LOQ	0.20	0.000	pass	
Etofenprox	< LOQ	0.40	0.000	pass		Etoxazole	< LOQ	0.20	0.000	pass	
Fenoxycarb	< LOQ	0.20	0.000	pass		Fenpyroximate	< LOQ	0.40	0.000	pass	
Fipronil	< LOQ	0.40	0.000	pass		Fonicamid	< LOQ	1.0	0.000	pass	
Fludioxonil	< LOQ	0.40	0.000	pass		Hexythiazox	< LOQ	1.0	0.000	pass	
Imazalil	< LOQ	0.20	0.000	pass		Imidacloprid	< LOQ	0.40	0.000	pass	
Kresoxim-methyl	< LOQ	0.40	0.000	pass		Malathion	< LOQ	0.20	0.000	pass	
Metalaxyl	< LOQ	0.20	0.000	pass		Methiocarb	< LOQ	0.20	0.000	pass	
Methomyl	< LOQ	0.40	0.000	pass		MGK-264	< LOQ	0.20	0.000	pass	
Myclobutanil	< LOQ	0.20	0.000	pass		Naled	< LOQ	0.50	0.000	pass	
Oxamyl	< LOQ	1.0	0.000	pass		Paclobutrazole	< LOQ	0.40	0.000	pass	
Parathion-Methyl	< LOQ	0.20	0.000	pass		Permethrin	< LOQ	0.20	0.000	pass	
Phosmet	< LOQ	0.20	0.000	pass		Piperonyl butoxide	< LOQ	2.0	0.000	pass	
Prallethrin	< LOQ	0.20	0.000	pass		Propiconazole	< LOQ	0.40	0.000	pass	
Propoxur	< LOQ	0.20	0.000	pass		Pyrethrin I (total)	< LOQ	1.0	0.000	pass	
Pyridaben	< LOQ	0.20	0.000	pass		Spinosad	< LOQ	0.20	0.000	pass	
Spiromesifen	< LOQ	0.20	0.000	pass		Spirotetramat	< LOQ	0.20	0.000	pass	
Spiroxamine	< LOQ	0.40	0.000	pass		Tebuconazole	< LOQ	0.40	0.000	pass	
Thiacloprid	< LOQ	0.20	0.000	pass		Thiamethoxam	< LOQ	0.20	0.000	pass	
Trifloxystrobin	< LOQ	0.20	0.000	pass							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes		
Arsenic	0.0183		mg/kg	0.0177	2004685	06/04/20	AOAC 2013.06 (mod.)	X		
Cadmium	< LOQ		mg/kg	0.0177	2004685	06/04/20	AOAC 2013.06 (mod.)	X		
Lead	0.171		mg/kg	0.0177	2004685	06/04/20	AOAC 2013.06 (mod.)	X		
Mercury	0.0168		mg/kg	0.00885	2004685	06/04/20	AOAC 2013.06 (mod.)	X		

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**Mycotoxins**

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Notes
Aflatoxin B1†	< LOQ		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Aflatoxin B2†	< LOQ		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Aflatoxin G1†	< LOQ		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Aflatoxin G2†	< LOQ		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Deoxynivalenol†	< 0.000		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Fumonisin B1†	< 0.000		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Fumonisin B2†	< LOQ		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
HT2-Toxin†	< LOQ		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Nivalenol†	< 0.000		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Ochratoxin A†	< LOQ		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Ochratoxin B†	< LOQ		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
T2-Toxin†	< 0.000		µg/kg	0.000	2004506	06/01/20	AOAC 2007.01 & EN 15662	
Zearalenone†	< 0.000		µg/kg	0.000	2004506	06/01/20	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