



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



Report Number: 23-008802/D005.R000
Report Date: 08/02/2023
ORELAP#: OR100028
Purchase Order:
Received: 07/26/23 10:24

Customer: Whole Leaf Health, LLC
Product identity: CBDPure Sleep, Batch #0523T301
Client/Metric ID: .
Laboratory ID: 23-008802-0002

Summary

Potency:

Analyte	Result	Limits	Units	Status		
CBC	0.219		%		CBD-Total (%)	5.82 %
CBD	5.76		%			
CBD-A	0.0647		%			
CBDV	0.0498		%		CBD-Total per 56g	3260 mg/56g
CBE	0.0618		%			
CBG	0.125		%			
CBL	0.0125		%		THC-Total (%)	0.264 %
CBN	0.524		%			
Δ9-THC	0.264		%			
THCV	0.0159		%			
Analyte per 56g	Result	Limits	Units	Status		
CBC per 56g	123		mg/56g			
CBD per 56g	3230		mg/56g			
CBD-A per 56g	36.2		mg/56g			
CBDV per 56g	27.9		mg/56g			
CBE per 56g	34.6		mg/56g			
CBG per 56g	70.0		mg/56g			
CBL per 56g	7.00		mg/56g			
CBN per 56g	293		mg/56g			
Δ9-THC per 56g	148		mg/56g			
THCV per 56g	8.90		mg/56g			

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
farnesene	0.144	24.45%	a-Bisabolol	0.110	18.68%
(R)-(+)-Limonene	0.0843	14.31%	(±)-trans-Nerolidol	0.0734	12.46%
β-Caryophyllene	0.0613	10.41%	β-Myrcene	0.0345	5.86%
Linalool	0.0298	5.06%	Humulene	0.0263	4.47%
(-)-Guaiol	0.0258	4.38%	Total Terpenes	0.589	100.00%



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Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: Whole Leaf Health, LLC
 2621 NE 134th St, Suite 200
 Vancouver Washington 98686
 United States of America (USA)

Product identity: CBDPure Sleep, Batch #0523T301

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-008802-0002

Evidence of Cooling: No

Temp: 23.0

Relinquished by: client

Serving Size #1: 56 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Units %	Batch: 2309518	Analyze: 7/27/23 11:14:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.219		%	0.00332	
CBC-A	< LOQ		%	0.00332	
CBC-Total	0.219		%	0.00623	
CBD	5.76		%	0.0332	
CBD-A	0.0647		%	0.00332	
CBD-Total	5.82		%	0.0361	
CBDV	0.0498		%	0.00332	
CBDV-A	< LOQ		%	0.00332	
CBDV-Total	0.0498		%	0.00619	
CBE	0.0618		%	0.00332	
CBG	0.125		%	0.00332	
CBG-A	< LOQ		%	0.00332	
CBG-Total	0.125		%	0.00619	
CBL	0.0125		%	0.00332	
CBL-A	< LOQ		%	0.00332	
CBL-Total	0.0125		%	0.00623	
CBN	0.524		%	0.00332	
CBT	< LOQ		%	0.00332	
Δ8-THCV	< LOQ		%	0.00332	
Δ10-THC-9R	< LOQ		%	0.00332	
Δ10-THC-9S	< LOQ		%	0.00332	
Δ10-THC-Total	< LOQ		%	0.00664	
Δ8-THC	< LOQ		%	0.00332	
Δ9-THC	0.264		%	0.00332	
delta-9-THCP	< LOQ		%	0.00332	
exo-THC	< LOQ		%	0.00332	
THC-A	< LOQ		%	0.00332	
THC-Total	0.264		%	0.00623	
THCV	0.0159		%	0.00332	
THCV-A	< LOQ		%	0.00332	



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Potency	Method: J AOAC 2015 V98-6 (mod) ^b	Units %	Batch: 2309518	Analyze: 7/27/23 11:14:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
THCV-Total	0.0159		%	0.00619	
Total Cannabinoids	7.10		%		

Potency per 56g	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2309518	Analyze: 7/27/23 11:14:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 56g	123		mg/56g	1.86	
CBC-A per 56g	< LOQ		mg/56g	1.86	
CBC-Total per 56g	123		mg/56g	3.49	
CBD per 56g	3230		mg/56g	18.6	
CBD-A per 56g	36.2		mg/56g	1.86	
CBD-Total per 56g	3260		mg/56g	20.2	
CBDV per 56g	27.9		mg/56g	1.86	
CBDV-A per 56g	< LOQ		mg/56g	1.86	
CBDV-Total per 56g	27.9		mg/56g	3.47	
CBE per 56g	34.6		mg/56g	1.86	
CBG per 56g	70.0		mg/56g	1.86	
CBG-A per 56g	< LOQ		mg/56g	1.86	
CBG-Total per 56g	70.0		mg/56g	3.47	
CBL per 56g	7.00		mg/56g	1.86	
CBL-A per 56g	< LOQ		mg/56g	1.86	
CBL-Total per 56g	7.00		mg/56g	3.49	
CBN per 56g	293		mg/56g	1.86	
CBT per 56g	< LOQ		mg/56g	1.86	
Δ8-THCV per 56g	< LOQ		mg/56g	1.86	
Δ10-THC-9R per 56g	< LOQ		mg/56g	1.86	
Δ10-THC-9S per 56g	< LOQ		mg/56g	1.86	
Δ10-THC-Total per 56g	< LOQ		mg/56g	3.72	
Δ8-THC per 56g	< LOQ		mg/56g	1.86	
Δ9-THC per 56g	148		mg/56g	1.86	
delta-9-THCP per 56g	< LOQ		mg/56g	1.86	
exo-THC per 56g	< LOQ		mg/56g	1.86	
THC-A per 56g	< LOQ		mg/56g	1.86	
THC-Total per 56g	148		mg/56g	3.49	
THCV per 56g	8.90		mg/56g	1.86	
THCV-A per 56g	< LOQ		mg/56g	1.86	
THCV-Total per 56g	8.90		mg/56g	3.49	
Total Cannabinoids per 56g	3970		mg/56g		



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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ		cfu/g	10	2309460	07/29/23 AOAC 990.12 (Petrifilm) [Ⓟ]		
E.coli	< LOQ		cfu/g	10	2309458	07/29/23 AOAC 991.14 (Petrifilm) [Ⓟ]		
Total Coliforms	< LOQ		cfu/g	10	2309458	07/29/23 AOAC 991.14 (Petrifilm) [Ⓟ]		
Staphylococcus aureus	< LOQ		cfu/g	10	2309462	07/28/23 AOAC 2003.07		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2309459	07/29/23 AOAC 2014.05 (RAPID) [Ⓟ]		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2309459	07/29/23 AOAC 2014.05 (RAPID) [Ⓟ]		
E. coli, O157:H7 (by PCR)	Negative		/5g		2309467	07/28/23 AOAC 2019.03 [Ⓟ]		I
Listeria spp.	Negative		/25g		2309466	07/28/23 AOAC 2019.10		
Salmonella spp. by PCR [‡]	Negative		/25g		2309464	07/28/23 AOAC 2020.02 [Ⓟ]		

Solvents Method: Residual Solvents by GC/MS[Ⓟ] Units µg/g Batch 2309574 Analyze 07/31/23 01:48 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 (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	



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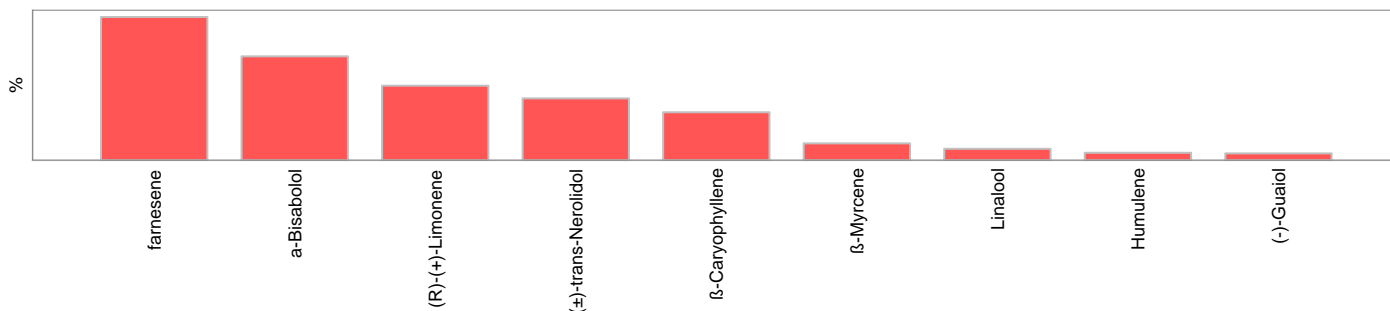


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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod) ^b											
Units mg/kg Batch 2309567 Analyze 07/31/23 12:44 PM											
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [¥]	< LOQ	0.50	0.250	pass		Acephate [¥]	< LOQ	0.40	0.200	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	
Bifentazate [¥]	< 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		Etoazole [¥]	< 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		Paclotubrazole [¥]	< LOQ	0.40	0.200	pass	
Parathion-Methyl [¥]	< LOQ	0.20	0.100	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	0.100	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							



Terpenes				Method: J AOAC 2015 V98-6	Units %	Batch 2309568	Analyze 07/28/23 07:39 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
farnesene	0.144	0.019	24.448%		a-Bisabolol	0.110	0.019	18.676%	
(R)-(+)-Limonene	0.0843	0.019	14.3124%		(±)-trans-Nerolidol	0.0734	0.019	12.4618%	
β-Caryophyllene	0.0613	0.019	10.4075%		β-Myrcene	0.0345	0.019	5.8574%	
Linalool	0.0298	0.019	5.0594%		Humulene	0.0263	0.019	4.4652%	
(-)-Guaiol	0.0258	0.019	4.3803%		(-)-caryophyllene oxide	< LOQ	0.019	0.00%	
nerol	< LOQ	0.019	0.00%		(-)-a-Terpeneol	< LOQ	0.019	0.00%	
Geranyl acetate	< LOQ	0.019	0.00%		Sabinene	< LOQ	0.019	0.00%	
(+)-Pulegone	< LOQ	0.019	0.00%		(+)-fenchol	< LOQ	0.019	0.00%	
(-)-β-Pinene	< LOQ	0.019	0.00%		(+)-Cedrol	< LOQ	0.019	0.00%	
a-pinene	< LOQ	0.019	0.00%		(±)-cis-Nerolidol	< LOQ	0.019	0.00%	
(±)-Camphor	< LOQ	0.019	0.00%		Sabinene hydrate	< LOQ	0.019	0.00%	
trans-β-Ocimene	< LOQ	0.012	0.00%		valencene	< LOQ	0.019	0.00%	
gamma-Terpinene	< LOQ	0.019	0.00%		(+)-Borneol	< LOQ	0.019	0.00%	
Menthol	< LOQ	0.019	0.00%		(-)-Isopulegol	< LOQ	0.019	0.00%	
(±)-fenchone	< LOQ	0.019	0.00%		a-cedrene	< LOQ	0.019	0.00%	
a-phellandrene	< LOQ	0.019	0.00%		a-Terpinene	< LOQ	0.019	0.00%	
Camphene	< LOQ	0.019	0.00%		cis-β-Ocimene	< LOQ	0.006	0.00%	
d-3-Carene	< LOQ	0.019	0.00%		Eucalyptol	< LOQ	0.019	0.00%	
Geraniol	< LOQ	0.019	0.00%		Isoborneol	< LOQ	0.019	0.00%	
p-Cymene	< LOQ	0.019	0.00%		Terpinolene	< LOQ	0.019	0.00%	
Total Terpenes	0.589								



Metals								
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0919	2309580	07/31/23 AOAC 2013.06 (mod.) ^p	pass	
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0919	2309580	07/31/23 AOAC 2013.06 (mod.) ^p	pass	
Lead [‡]	< LOQ	0.500	mg/kg	0.0919	2309580	07/31/23 AOAC 2013.06 (mod.) ^p	pass	
Mercury [‡]	< LOQ	0.100	mg/kg	0.0460	2309580	07/31/23 AOAC 2013.06 (mod.) ^p	pass	



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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.

Ⓟ = ISO/IEC 17025:2017 accredited method.

Ⓜ = TNI accredited analyte.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

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

mg/56g = Milligram per 56g

/5g = Per 5 grams

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner
General Manager



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