



TEST RESULTS SUMMARY

Please see the following pages for full test results.

Batch Date: 02/21/2023	Batch #: 1084173-2023-0221-SG	NR: Not Reported NA: Not Applicable
Product Name: 99 mg CBD + 1 mg THC Softgels (60 Count Bottle)		LOQ: Limit Of Quantitation LOD: Limit Of Detection
Expiration Date: 02/21/2025	Batch Size: 1,667 Units	1 g = 10 ⁻³ kg = 10 ³ mg = 10 ⁶ µg
Testing Lab: Columbia Labs	ORELAP Lab #: OR100028	

POTENCY PASS	Per Serving	Total Percent	Regulatory Action Level
Cannabidiol (CBD)	104 mg	21.9 %	N/A
Total THC (d9-THC + d8-THC)	1.26 mg	0.265 %	0.30%
Cannabigerol (CBG)	0.47 mg	0.098 %	N/A
Cannabinol (CBN)	0.37 mg	0.078 %	0.30%
Cannabichromene (CBC)	0.31 mg	0.065 %	N/A

HEAVY METALS PASS	Per Serving	Per Gram	Regulatory Action Level
Arsenic	<LOQ µg/serving	<LOQ µg/g	10 µg/day ^[1]
Cadmium	<LOQ µg/serving	<LOQ µg/g	4.1 µg/day ^[1]
Lead	<LOQ µg/serving	<LOQ µg/g	3.5 µg/day ^[2]
Mercury	<LOQ µg/serving	<LOQ µg/g	2 µg/day ^[1]

PESTICIDES PASS	Regulatory Action Level
ZERO of 59 pesticides tested found above limit of detection in the sample.	10 ppb ^[3]

RESIDUAL SOLVENTS PASS
ZERO of 38 residual solvents tested found above limit of detection in the sample.

MICROBIAL PASS	Pass/Fail
Aerobic Plate Count	PASS
Ecoli 0157	PASS
Listeria spp.	PASS
Salmonella spp.	PASS
Staphylococcus	PASS
Yeast and Mold	PASS
Mycotoxins	PASS

1. Agency for Toxic Substances & Disease Registry. (2020). "Minimal Risk Levels (MRLs) for Hazardous Substances". Atlanta, GA: ATSDR. <https://www.atsdr.cdc.gov/mrls/mrllist.asp#24tag>

2. US Food and Drug Administration. (2020). "Lead in Food, Foodwares, and Dietary Supplements". Washington DC: FDA. <https://www.fda.gov/food/metals-and-your-food/lead-food-foodwares-and-dietary-supplements>

3. Oregon Department of Agriculture. (2020). "Cannabis and Pesticides". Salem, OR: ODA. <https://www.oregon.gov/ODA/programs/Pesticides/Pages/CannabisPesticides.aspx>



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



Report Number: 23-002306/D007.R000
Report Date: 03/10/2023
ORELAP#: OR100028
Purchase Order:
Received: 02/27/23 11:00

Customer: Alliant Hemp LLC
Product identity: 1084173-2023-0221-SG
Client/Metric ID: .
Laboratory ID: 23-002306-0001

Summary

Potency:

Analyte	Result	Limits	Units	Status	
CBC	0.0654		%		CBD-Total per Serving Size 104 mg/0.47g
CBD	21.9		%		
CBDV	0.0619		%		THC-Total per Serving Size 1.26 mg/0.47g
CBG	0.0982		%		(Reported in milligrams per serving)
CBL	0.0184		%		
CBN	0.0778		%		
CBT	0.338		%		
Δ9-THC	0.265	0.350	%		
Analyte per 0.47g	Result	Limits	Units	Status	
CBC per 0.47g	0.311		mg/0.47g		
CBD per 0.47g	104		mg/0.47g		
CBDV per 0.47g	0.294		mg/0.47g		
CBG per 0.47g	0.466		mg/0.47g		
CBL per 0.47g	0.0874		mg/0.47g		
CBN per 0.47g	0.370		mg/0.47g		
CBT per 0.47g	1.61		mg/0.47g		
Δ8-THC per 0.47g	0.0432		mg/0.47g		
Δ9-THC per 0.47g	1.26		mg/0.47g		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Metals:

Less than LOQ for all analytes.

Microbiology:

Analyte	Result	Units
Aerobic Plate Count	90	cfu/g



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Product identity: 1084173-2023-0221-SG

Client/Metric ID: .

Sample Date:

Laboratory ID: 23-002306-0001

Evidence of Cooling: No

Temp: 12.5

Relinquished by: fedex

Serving Size #1: 0.475 g

Sample Results

Potency	Method: J AOAC 2015 V98-6 (mod)	Units %	Batch: 2301864	Analyze: 3/1/23 8:52:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0654		%	0.00320	
CBC-A	< LOQ		%	0.00320	
CBC-Total	0.0654		%	0.00600	
CBD ^Δ	21.9		%	0.320	
CBD-A ^Δ	< LOQ		%	0.00320	
CBD-Total	21.9		%	0.322	
CBDV	0.0619		%	0.00320	
CBDV-A	< LOQ		%	0.00320	
CBDV-Total	0.0619		%	0.00597	
CBE	< LOQ		%	0.00320	
CBG	0.0982		%	0.00320	
CBG-A	< LOQ		%	0.00320	
CBG-Total	0.0982		%	0.00597	
CBL	0.0184		%	0.00320	
CBL-A	< LOQ		%	0.00320	
CBL-Total	0.0184		%	0.00600	
CBN	0.0778		%	0.00320	
CBT	0.338		%	0.00320	
Δ8-THCV	< LOQ		%	0.00320	
Δ10-THC-9R	< LOQ		%	0.00320	
Δ10-THC-9S	< LOQ		%	0.00320	
Δ10-THC-Total	< LOQ		%	0.00639	
Δ8-THC ^Δ	< LOQ		%	0.00320	
Δ9-THC ^Δ	0.265	0.350	%	0.00320	
exo-THC	< LOQ		%	0.00320	
THC-A ^Δ	< LOQ		%	0.00320	
THC-Total	0.265		%	0.00600	
THCV	< LOQ		%	0.00320	
THCV-A	< LOQ		%	0.00320	
THCV-Total	< LOQ		%	0.00597	
Total Cannabinoids	22.8		%		



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Potency per 0.47g Method: J AOAC 2015 V98-6 (mod) Units mg/se Batch: 2301864 Analyze: 3/1/23 8:52:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 0.47g	0.311		mg/0.47g	0.0152	
CBC-A per 0.47g	< LOQ		mg/0.47g	0.0152	
CBC-Total per 0.47g	0.311		mg/0.47g	0.0285	
CBD per 0.47g	104		mg/0.47g	1.52	
CBD-A per 0.47g	< LOQ		mg/0.47g	0.0152	
CBD-Total per 0.47g	104		mg/0.47g	1.53	
CBDV per 0.47g	0.294		mg/0.47g	0.0152	
CBDV-A per 0.47g	< LOQ		mg/0.47g	0.0152	
CBDV-Total per 0.47g	0.294		mg/0.47g	0.0283	
CBE per 0.47g	< LOQ		mg/0.47g	0.0152	
CBG per 0.47g	0.466		mg/0.47g	0.0152	
CBG-A per 0.47g	< LOQ		mg/0.47g	0.0152	
CBG-Total per 0.47g	0.466		mg/0.47g	0.0283	
CBL per 0.47g	0.0874		mg/0.47g	0.0152	
CBL-A per 0.47g	< LOQ		mg/0.47g	0.0152	
CBL-Total per 0.47g	0.0874		mg/0.47g	0.0285	
CBN per 0.47g	0.370		mg/0.47g	0.0152	
CBT per 0.47g	1.61		mg/0.47g	0.0152	
Δ8-THCV per 0.47g	< LOQ		mg/0.47g	0.0152	
Δ10-THC-9R per 0.47g	< LOQ		mg/0.47g	0.0152	
Δ10-THC-9S per 0.47g	< LOQ		mg/0.47g	0.0152	
Δ10-THC-Total per 0.47g	< LOQ		mg/0.47g	0.0304	
Δ8-THC per 0.47g	0.0432		mg/0.47g	0.0152	
Δ9-THC per 0.47g	1.26		mg/0.47g	0.0152	
exo-THC per 0.47g	< LOQ		mg/0.47g	0.0152	
THC-A per 0.47g	< LOQ		mg/0.47g	0.0152	
THC-Total per 0.47g	1.26		mg/0.47g	0.0285	
THCV per 0.47g	< LOQ		mg/0.47g	0.0152	
THCV-A per 0.47g	< LOQ		mg/0.47g	0.0152	
THCV-Total per 0.47g	< LOQ		mg/0.47g	0.0285	
Total Cannabinoids per 0.47g	108		mg/0.47g		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	90		cfu/g	10	2301776	03/02/23 AOAC 990.12 (Petrifilm)		
E.coli	< LOQ		cfu/g	10	2301773	03/02/23 AOAC 991.14 (Petrifilm)		
Total Coliforms	< LOQ		cfu/g	10	2301773	03/02/23 AOAC 991.14 (Petrifilm)		
Staphylococcus aureus	< LOQ		cfu/g	10	2301778	03/01/23 AOAC 2003.07		
Mold (RAPID Petrifilm)	< LOQ		cfu/g	10	2301774	03/03/23 AOAC 2014.05 (RAPID)		
Yeast (RAPID Petrifilm)	< LOQ		cfu/g	10	2301774	03/03/23 AOAC 2014.05 (RAPID)		
E. coli, O157:H7 (by PCR)	Negative	/5g			2301781	03/01/23 AOAC 2019.03		I
Listeria spp.	Negative	/10g			2301780	03/01/23 AOAC 2019.10		I
Salmonella spp. by PCR*	Negative	/5g			2301779	03/01/23 AOAC 2020.02 ^b		I



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Solvents											Method: Residual Solvents by GC/MS					Units µg/g		Batch 2301985		Analyze 03/06/23 12:51 PM				
Analyte	Result	Limits	LOQ	Status	Notes	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-Butanol [‡]	< LOQ	5000	200	pass								
2-Ethoxyethanol [‡]	< LOQ	160	30.0	pass		2-Methylbutane (Isopentane)	< LOQ		200			2-Methylbutane (Isopentane)	< LOQ		200									
2-Methylpentane	< LOQ		30.0			2-Propanol (IPA) [‡]	< LOQ	5000	200	pass		2-Propanol (IPA) [‡]	< LOQ	5000	200	pass								
2,2-Dimethylbutane	< LOQ		30.0			2,2-Dimethylpropane (neo-pentane)	< LOQ		200			2,2-Dimethylpropane (neo-pentane)	< LOQ		200									
2,3-Dimethylbutane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0			3-Methylpentane	< LOQ		30.0									
Acetone [‡]	< LOQ	5000	200	pass		Acetonitrile [‡]	< LOQ	410	100	pass		Acetonitrile [‡]	< LOQ	410	100	pass								
Benzene [‡]	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	5000	400	pass		Butanes (sum)	< LOQ	5000	400	pass								
Cyclohexane [‡]	< LOQ	3880	200	pass		Ethyl acetate [‡]	< LOQ	5000	200	pass		Ethyl acetate [‡]	< LOQ	5000	200	pass								
Ethyl benzene	< LOQ		200			Ethyl ether [‡]	< LOQ	5000	200	pass		Ethyl ether [‡]	< LOQ	5000	200	pass								
Ethylene glycol [‡]	< LOQ	620	200	pass		Ethylene oxide [‡]	< LOQ	50.0	20.0	pass		Ethylene oxide [‡]	< LOQ	50.0	20.0	pass								
Hexanes (sum)	< LOQ	290	150	pass		Isopropyl acetate [‡]	< LOQ	5000	200	pass		Isopropyl acetate [‡]	< LOQ	5000	200	pass								
Isopropylbenzene (Cumene) [‡]	< LOQ	70.0	30.0	pass		m,p-Xylene	< LOQ		200			m,p-Xylene	< LOQ		200									
Methanol [‡]	< LOQ	3000	200	pass		Methylene chloride [‡]	< LOQ	600	60.0	pass		Methylene chloride [‡]	< LOQ	600	60.0	pass								
Methylpropane (Isobutane)	< LOQ		200			n-Butane [‡]	< LOQ		200			n-Butane [‡]	< LOQ		200									
n-Heptane [‡]	< LOQ	5000	200	pass		n-Hexane [‡]	< LOQ		30.0			n-Hexane [‡]	< LOQ		30.0									
n-Pentane [‡]	< LOQ		200			o-Xylene	< LOQ		200			o-Xylene	< LOQ		200									
Pentanes (sum)	< LOQ	5000	600	pass		Propane [‡]	< LOQ	5000	200	pass		Propane [‡]	< LOQ	5000	200	pass								
Tetrahydrofuran [‡]	< LOQ	720	100	pass		Toluene [‡]	< LOQ	890	100	pass		Toluene [‡]	< LOQ	890	100	pass								
Total Xylenes [‡]	< LOQ		400			Total Xylenes and Ethyl benzene	< LOQ	2170	600	pass		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 2301820		Analyze 03/01/23 08:10 AM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin [‡]	< LOQ	0.50	0.250	pass		Acephate	< LOQ	0.40	0.200	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	
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		Flonicamid [‡]	< 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		Pacllobutrazole [‡]	< 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							

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Arsenic [‡]	< LOQ	0.200	mg/kg	0.0295	2301900	03/02/23	AOAC 2013.06 (mod.) ^p	pass		
Cadmium [‡]	< LOQ	0.200	mg/kg	0.0295	2301900	03/02/23	AOAC 2013.06 (mod.) ^p	pass		
Lead [‡]	< LOQ	0.500	mg/kg	0.0295	2301900	03/02/23	AOAC 2013.06 (mod.) ^p	pass		
Mercury [‡]	< LOQ	0.100	mg/kg	0.0147	2301900	03/02/23	AOAC 2013.06 (mod.) ^p	pass		



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [¶]	< LOQ		µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) [¶]		
Aflatoxin B1 [¶]	< LOQ		µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) [¶]		
Aflatoxin G1 [¶]	< LOQ		µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) [¶]		
Aflatoxin G2 [¶]	< LOQ		µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) [¶]		
Deoxynivalenol	< LOQ		µg/kg	200	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod)		
Fumonisin B1	< LOQ		µg/kg	200	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod)		
Fumonisin B2	< LOQ		µg/kg	200	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod)		
HT2-Toxin	< LOQ		µg/kg	40.0	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod)		
Ochratoxin A [¶]	< LOQ	20.0	µg/kg	5.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod) [¶]	pass	
Ochratoxin B	< LOQ		µg/kg	2.00	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod)		
T2-Toxin	< LOQ		µg/kg	20.0	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod)		
Zearalenone	< LOQ		µg/kg	200	2301840	03/01/23 AOAC 2007.01 & EN 15662 (mod)		



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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

cfu/g = Colony forming units per gram

g = g

µg/g = Microgram per gram

µg/kg = Micrograms per kilogram = parts per billion (ppb)

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

mg/0.47g = Milligram per 0.47g

/10g = Per 10 grams

/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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