



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



Report Number: 22-015199/D003.R000
Report Date: 12/22/2022
ORELAP#: OR100028
Purchase Order: 0113
Received: 12/13/22 07:42

Customer: R&R
Product identity: R&R Organic Full Spectrum 2500mg Tincture - Fresh Mint
Client/Metric ID: Lot 0019
Laboratory ID: 22-015199-0001

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBC per 1ml	3.32		mg/1ml		CBD-Total per Serving Size 84.5 mg/1ml
CBD per 1ml	83.5		mg/1ml		
CBD-A per 1ml	1.16		mg/1ml		THC-Total per Serving Size 2.24 mg/1ml
CBDV per 1ml	0.461		mg/1ml		
CBE per 1ml	1.31		mg/1ml		CBD-Total per Serving Size 2540 mg/30ml
CBG per 1ml	0.969		mg/1ml		
CBL per 1ml	0.127		mg/1ml		THC-Total per Serving Size 67.3 mg/30ml
CBN per 1ml	0.792		mg/1ml		
CBT per 1ml	1.63		mg/1ml		
Δ9-THC per 1ml	2.24		mg/1ml		(Reported in milligrams per serving)
Analyte per 30ml	Result	Limits	Units	Status	
CBC per 30ml	99.7		mg/30ml		
CBD per 30ml	2510		mg/30ml		
CBD-A per 30ml	34.8		mg/30ml		
CBDV per 30ml	13.8		mg/30ml		
CBE per 30ml	39.3		mg/30ml		
CBG per 30ml	29.1		mg/30ml		
CBL per 30ml	3.81		mg/30ml		
CBN per 30ml	23.7		mg/30ml		
CBT per 30ml	48.8		mg/30ml		
Δ9-THC per 30ml	67.3		mg/30ml		



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Summary

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
a-Bisabolol	0.0643	50.23%	Menthol	0.0557	43.52%
cis-β-Ocimene	0.00802	6.27%	Total Terpenes	0.128	100.00%

Metals:

Less than LOQ for all analytes.

Microbiology:

Less than LOQ for all analytes.



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Customer: R&R

Product identity: R&R Organic Full Spectrum 2500mg Tincture - Fresh Mint
Client/Metric ID: Lot 0019
Sample Date:
Laboratory ID: 22-015199-0001
Evidence of Cooling: No
Temp: 15.9
Relinquished by: client



Sample Results

Potency per 1ml	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2210645	Analyze: 12/14/22 8:50:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml	3.32		mg/1ml	0.0696	
CBC-A per 1ml	< LOQ		mg/1ml	0.0671	
CBC-Total per 1ml	3.32		mg/1ml	0.131	
CBD per 1ml	83.5		mg/1ml	0.696	
CBD-A per 1ml	1.16		mg/1ml	0.0696	
CBD-Total per 1ml	84.5		mg/1ml	0.757	
CBDV per 1ml	0.461		mg/1ml	0.0696	
CBDV-A per 1ml	< LOQ		mg/1ml	0.0671	
CBDV-Total per 1ml	0.461		mg/1ml	0.130	
CBE per 1ml	1.31		mg/1ml	0.0696	
CBG per 1ml	0.969		mg/1ml	0.0696	
CBG-A per 1ml	< LOQ		mg/1ml	0.0671	
CBG-Total per 1ml	0.969		mg/1ml	0.130	
CBL per 1ml	0.127		mg/1ml	0.0696	
CBL-A per 1ml	< LOQ		mg/1ml	0.0671	
CBL-Total per 1ml	< LOQ		mg/1ml	0.131	
CBN per 1ml	0.792		mg/1ml	0.0696	
CBT per 1ml	1.63		mg/1ml	0.0696	
Δ8-THCV per 1ml	< LOQ		mg/1ml	0.0671	
Δ10-THC per 1ml	< LOQ		mg/1ml	0.0671	
Δ8-THC per 1ml	< LOQ		mg/1ml	0.0671	
Δ9-THC per 1ml	2.24		mg/1ml	0.0696	
exo-THC per 1ml	< LOQ		mg/1ml	0.0671	
THC-A per 1ml	< LOQ		mg/1ml	0.0671	
THC-Total per 1ml	2.24		mg/1ml	0.131	
THCV per 1ml	< LOQ		mg/1ml	0.0671	
THCV-A per 1ml	< LOQ		mg/1ml	0.0671	
THCV-Total per 1ml	< LOQ		mg/1ml	0.126	
Total Cannabinoids per 1ml	95.5		mg/1ml		



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Potency per 30ml **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2210645 **Analyze:** 12/14/22 8:50:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 30ml	99.7		mg/30ml	2.09	
CBC-A per 30ml	< LOQ		mg/30ml	2.01	
CBC-Total per 30ml	99.7		mg/30ml	3.92	
CBD per 30ml	2510		mg/30ml	20.9	
CBD-A per 30ml	34.8		mg/30ml	2.09	
CBD-Total per 30ml	2540		mg/30ml	22.7	
CBDV per 30ml	13.8		mg/30ml	2.09	
CBDV-A per 30ml	< LOQ		mg/30ml	2.01	
CBDV-Total per 30ml	13.8		mg/30ml	3.90	
CBE per 30ml	39.3		mg/30ml	2.09	
CBG per 30ml	29.1		mg/30ml	2.09	
CBG-A per 30ml	< LOQ		mg/30ml	2.01	
CBG-Total per 30ml	29.1		mg/30ml	3.90	
CBL per 30ml	3.81		mg/30ml	2.09	
CBL-A per 30ml	< LOQ		mg/30ml	2.01	
CBL-Total per 30ml	< LOQ		mg/30ml	3.92	
CBN per 30ml	23.7		mg/30ml	2.09	
CBT per 30ml	48.8		mg/30ml	2.09	
Δ8-THCV per 30ml	< LOQ		mg/30ml	2.01	
Δ10-THC per 30ml	< LOQ		mg/30ml	2.01	
Δ8-THC per 30ml	< LOQ		mg/30ml	2.01	
Δ9-THC per 30ml	67.3		mg/30ml	2.09	
exo-THC per 30ml	< LOQ		mg/30ml	2.01	
THC-A per 30ml	< LOQ		mg/30ml	2.01	
THC-Total per 30ml	67.3		mg/30ml	3.92	
THCV per 30ml	< LOQ		mg/30ml	2.01	
THCV-A per 30ml	< LOQ		mg/30ml	2.01	
THCV-Total per 30ml	< LOQ		mg/30ml	3.78	
Total Cannabinoids per 30ml	2870		mg/30ml		



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Laboratory ID: 22-015199-0001
Evidence of Cooling: No
Temp: 15.9
Relinquished by: client

Sample Results

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000	cfu/g	10	2210581	12/16/22 AOAC 990.12 (Petrifilm) ^P	pass	
E.coli	< LOQ	100.00	cfu/g	10	2210579	12/16/22 AOAC 991.14 (Petrifilm) ^P	pass	
Total Coliforms	< LOQ	100.00	cfu/g	10	2210579	12/16/22 AOAC 991.14 (Petrifilm) ^P	pass	
Mold (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2210580	12/17/22 AOAC 2014.05 (RAPID) ^P	pass	
Yeast (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2210580	12/17/22 AOAC 2014.05 (RAPID) ^P	pass	
Salmonella spp. by PCR	Negative		/25g		2210584	12/15/22 AOAC 2020.02 ^P		
EHEC including STEC	Negative		/25g		2210587	12/15/22 AOAC RI 121806 ^P		

Solvents

Method: Residual Solvents by GC/MS^P **Units** µg/g **Batch** 2210737 **Analyze** 12/19/22 11:32 AM

Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
2-Methylbutane (Isopentane)	< LOQ	1000	200	pass		2-Methylpentane	< LOQ	60.0	30.0	pass	
2-Propanol (IPA)	< LOQ	1000	200	pass		2,2-Dimethylbutane	< LOQ	6.00	30.0	pass	
2,2-Dimethylpropane (neo-pentane)	< LOQ	1000	200	pass		2,3-Dimethylbutane	< LOQ	60.0	30.0	pass	
3-Methylpentane	< LOQ	60.0	30.0	pass		Acetone	< LOQ	1000	200	pass	
Benzene	< LOQ	2.00	1.00	pass		Butanes (sum)	< LOQ	1000	400	pass	
Ethanol	< LOQ	1000	200	pass		Ethyl acetate	< LOQ	1000	200	pass	
Hexanes (sum)	< LOQ	60.0	150	pass		m,p-Xylene	< LOQ	430	200	pass	
Methanol	< LOQ	600	200	pass		Methylpropane (Isobutane)	< LOQ	1000	200	pass	
n-Butane	< LOQ	1000	200	pass		n-Heptane	< LOQ	1000	200	pass	
n-Hexane	< LOQ	60.0	30.0	pass		n-Pentane	< LOQ	1000	200	pass	
o-Xylene	< LOQ	430	200	pass		Pentanes (sum)	< LOQ	1000	600	pass	
Propane	< LOQ	1000	200	pass		Toluene	< LOQ	180	100	pass	
Total Xylenes	< LOQ	430	400	pass							



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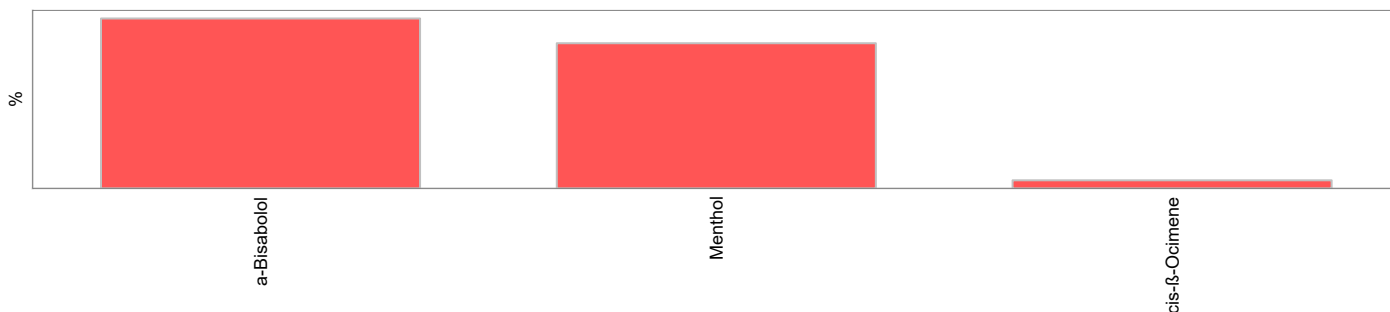
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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2210687		Analyze 12/16/22 02:15 PM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ	0.25	0.070	pass		Acephate	< LOQ	0.050	0.020	pass	
Acequinocyl	< LOQ	0.030	0.025	pass		Acetamiprid	< LOQ	0.050	0.050	pass	
Aldicarb	< LOQ	0.50	0.100	pass		Allethrin	< LOQ	0.10	0.100	pass	
Atrazine	< LOQ	0.0250	0.025	pass		Azadirachtin	< LOQ	1.0	0.500	pass	
Azoxystrobin	< LOQ	0.010	0.010	pass		Benzovindiflupyr	< LOQ	0.010	0.010	pass	
Bifenazate	< LOQ	0.010	0.010	pass		Bifenthrin	< LOQ	1.0	0.100	pass	
Boscalid	< LOQ	0.010	0.010	pass		Buprofezin	< LOQ	0.020	0.010	pass	
Carbaryl	< LOQ	0.025	0.025	pass		Carbofuran	< LOQ	0.010	0.010	pass	
Chlorantraniliprole	< LOQ	0.020	0.010	pass		Chlorfenapyr	< LOQ	1.5	0.100	pass	
Chlorpyrifos	< LOQ	0.50	0.010	pass		Clofentezine	< LOQ	0.010	0.010	pass	
Clothianidin	< LOQ	0.025	0.025	pass		Coumaphos	< LOQ	0.010	0.010	pass	
Cyantraniliprole	< LOQ	0.010	0.010	pass		Cyfluthrin	< LOQ	0.20	0.200	pass	
Cyhalothrin,lambda	< LOQ	0.0200	0.250	pass		Cypermethrin	< LOQ	0.30	0.300	pass	
Cyprodinil	< LOQ	0.010	0.010	pass		Daminozide	< LOQ	0.10	0.050	pass	
Deltamethrin	< LOQ	0.50	0.500	pass		Diazinon	< LOQ	0.020	0.010	pass	
Dichlorvos	< LOQ	0.050	0.050	pass		Dimethoate	< LOQ	0.010	0.010	pass	
Dimethomorph	< LOQ	0.050	0.050	pass		Dimetofuran	< LOQ	0.050	0.050	pass	
Diuron	< LOQ	0.125	0.125	pass		Dodemorph	< LOQ	0.050	0.050	pass	
Endosulfan I (alpha)	< LOQ	2.5	0.050	pass		Endosulfan II (beta)	< LOQ	2.5	0.050	pass	
Endosulfan sulfate	< LOQ	2.5	0.050	pass		Ethoprophos	< LOQ	0.010	0.010	pass	
Etofenprox	< LOQ	0.050	0.010	pass		Etoxazole	< LOQ	0.020	0.010	pass	
Etridiazole	< LOQ	0.15	0.050	pass		Fenhexamid	< LOQ	0.13	0.100	pass	
Fenoxycarb	< LOQ	0.010	0.010	pass		Fenpyroximate	< LOQ	0.020	0.020	pass	
Fensulfothion	< LOQ	0.010	0.010	pass		Fenthion	< LOQ	0.010	0.010	pass	
Fenvalerate	< LOQ		0.200			Fipronil	< LOQ	0.010	0.010	pass	
Flonicamid	< LOQ	0.025	0.025	pass		Fludioxonil	< LOQ	0.010	0.010	pass	
Fluopyram	< LOQ	0.010	0.010	pass		Hexythiazox	< LOQ	0.010	0.010	pass	
Imazalil	< LOQ	0.010	0.010	pass		Imidacloprid	< LOQ	0.010	0.010	pass	
Iprodione	< LOQ	0.50	0.500	pass		Kinoprene	< LOQ	1.3	0.200	pass	
Kresoxim-methyl	< LOQ	0.15	0.010	pass		Malathion	< LOQ	0.010	0.010	pass	
Metalaxyl	< LOQ	0.010	0.010	pass		Methiocarb	< LOQ	0.010	0.010	pass	
Methomyl	< LOQ	0.025	0.025	pass		Methoprene	< LOQ	2.0	1.00	pass	
Mevinphos	< LOQ	0.025	0.025	pass		MGK-264	< LOQ	0.050	0.050	pass	
Myclobutanil	< LOQ	0.010	0.010	pass		Naled	< LOQ	0.10	0.100	pass	
Novaluron	< LOQ	0.025	0.025	pass		Oxamyl	< LOQ	1.5	0.500	pass	
Paclobutrazole	< LOQ	0.010	0.010	pass		Parathion-Methyl	< LOQ	0.050	0.030	pass	
Permethrin	< LOQ	0.50	0.040	pass		Phenothrin	< LOQ	0.050	0.025	pass	
Phosmet	< LOQ	0.020	0.010	pass		Piperonyl butoxide	< LOQ	1.3	0.200	pass	
Pirimicarb	< LOQ	0.010	0.010	pass		Prallethrin	< LOQ	0.050	0.050	pass	
Propiconazole	< LOQ	0.10	0.010	pass		Propoxur	< LOQ	0.010	0.010	pass	
Pyraclostrobin	< LOQ	0.010	0.010	pass		Pyrethrins (total)	< LOQ	0.050	0.025	pass	
Pyridaben	< LOQ	0.020	0.020	pass		Pyriproxyfen	< LOQ	0.0100	0.010	pass	
Quintozene	< LOQ	0.020	0.020	pass		Resmethrin	< LOQ	0.050	0.020	pass	
Spinetoram	< LOQ	0.010	0.010	pass		Spinosad	< LOQ	0.010	0.010	pass	
Spirodiclofen	< LOQ	0.25	0.250	pass		Spiromesifen	< LOQ	3.0	0.030	pass	
Spirotetramat	< LOQ	0.010	0.010	pass		Spiroxamine	< LOQ	0.10	0.010	pass	



Pesticides		Method: AOAC 2007.01 & EN 15662 (mod)				Units mg/kg	Batch 2210687	Analyze 12/16/22 02:15 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Tebuconazole	< LOQ	0.010	0.010	pass		Tebufenozide	< LOQ	0.010	0.010	pass	
Teflubenzuron	< LOQ	0.025	0.025	pass		Tetrachlorvinphos	< LOQ	0.010	0.010	pass	
Tetramethrin	< LOQ	0.10	0.050	pass		Thiacloprid	< LOQ	0.010	0.010	pass	
Thiamethoxam	< LOQ	0.010	0.010	pass		Thiophanate-Methyl	< LOQ	0.050	0.030	pass	
Trifloxystrobin	< LOQ	0.010	0.010	pass							

Terpenes		Method: J AOAC 2015 V98-6			Units %	Batch 2210790	Analyze 12/17/22 09:59 AM			
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes	
a-Bisabolol	0.0643	0.019	50.2344%		Menthol	0.0557	0.019	43.5156%		
farnesene	< LOQ	0.019	0.00%		(-)-Guaiaol	< LOQ	0.019	0.00%		
a-cedrene	< LOQ	0.019	0.00%		β-Caryophyllene	< LOQ	0.019	0.00%		
Eucalyptol	< LOQ	0.019	0.00%		cis-β-Ocimene	0.00802	0.006			
Humulene	< LOQ	0.019	0.00%		(+)-Borneol	< LOQ	0.019	0.00%		
Isoborneol	< LOQ	0.019	0.00%		(±)-trans-Nerolidol	< LOQ	0.019	0.00%		
Geraniol	< LOQ	0.019	0.00%		(R)-(+)-Limonene	< LOQ	0.019	0.00%		
a-Terpinene	< LOQ	0.019	0.00%		p-Cymene	< LOQ	0.019	0.00%		
(+)-Pulegone	< LOQ	0.019	0.00%		trans-β-Ocimene	< LOQ	0.012	0.00%		
Sabinene hydrate	< LOQ	0.019	0.00%		valencene	< LOQ	0.019	0.00%		
(-)-a-Terpineol	< LOQ	0.019	0.00%		(+)-Cedrol	< LOQ	0.019	0.00%		
Sabinene	< LOQ	0.019	0.00%		(-)-caryophyllene oxide	< LOQ	0.019	0.00%		
(-)-Isopulegol	< LOQ	0.019	0.00%		(-)-β-Pinene	< LOQ	0.019	0.00%		
(+)-fenchol	< LOQ	0.019	0.00%		(±)-Camphor	< LOQ	0.019	0.00%		
(±)-cis-Nerolidol	< LOQ	0.019	0.00%		(±)-fenchone	< LOQ	0.019	0.00%		
a-phellandrene	< LOQ	0.019	0.00%		a-pinene	< LOQ	0.019	0.00%		
Camphene	< LOQ	0.019	0.00%		d-3-Carene	< LOQ	0.019	0.00%		
gamma-Terpinene	< LOQ	0.019	0.00%		Geranyl acetate	< LOQ	0.019	0.00%		
Linalool	< LOQ	0.019	0.00%		nerol	< LOQ	0.019	0.00%		
β-Myrcene	< LOQ	0.019	0.00%		Terpinolene	< LOQ	0.019	0.00%		
Total Terpenes	0.128									





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Metals

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Arsenic	< LOQ	1.50	mg/kg	0.0947	2210673	12/15/22 AOAC 2013.06 (mod.) ^p	pass	
Cadmium	< LOQ	0.50	mg/kg	0.0947	2210673	12/15/22 AOAC 2013.06 (mod.) ^p	pass	
Lead	< LOQ	0.50	mg/kg	0.0947	2210673	12/15/22 AOAC 2013.06 (mod.) ^p	pass	
Mercury	< LOQ	1.50	mg/kg	0.0474	2210673	12/15/22 AOAC 2013.06 (mod.) ^p	pass	

Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aflatoxin B2 [‡]	< LOQ	5.00	µg/kg	5.00	2210648	12/15/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Aflatoxin B1 [‡]	< LOQ	5.00	µg/kg	5.00	2210648	12/15/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Aflatoxin G1 [‡]	< LOQ	5.00	µg/kg	5.00	2210648	12/15/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Aflatoxin G2 [‡]	< LOQ	5.00	µg/kg	5.00	2210648	12/15/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Ochratoxin A [‡]	< LOQ	5.00	µg/kg	5.00	2210648	12/15/22 AOAC 2007.01 & EN 15662 (mod) ^p	pass	
Total Aflatoxins [‡]	< LOQ		µg/kg	20.0		12/20/22 AOAC 2007.01 & EN 15662 (mod) ^p		



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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.

Threshold Note: Action levels per 6 CCR 1010-21 CDPHE requirements

▷ = ISO/IEC 17025:2017 accredited method.

* = TNI accredited analyte.

Units of Measure

/25g = Per 25g

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)

mg/1ml = Milligram per 1ml

mg/30ml = Milligram per 30ml

% = Percentage of sample

% wt = µg/g divided by 10,000

Approved Signatory

Derrick Tanner
General Manager