



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



Report Number: 22-010692/D002.R002
Report Date: 09/29/2022
ORELAP#: OR100028
Purchase Order: 0098
Received: 09/08/22 08:18

This is an amended version of report# 22-010692/D002.R001.
Reason: Combine results with report 22-008660/D003.R000.

Customer: R&R
Product identity: R&R Organic Full Spectrum 1000mg Tincture - Unflavored
Client/Metric ID: Lot 1870
Laboratory ID: 22-010692-0001

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBC per 1ml	1.27		mg/1ml		CBD-Total per Serving Size 34.7 mg/1ml
CBD per 1ml	34.0		mg/1ml		
CBD-A per 1ml	0.796		mg/1ml		THC-Total per Serving Size 1.36 mg/1ml
CBDV per 1ml	0.224		mg/1ml		
CBE per 1ml	0.380		mg/1ml		CBD-Total per Serving Size 1040 mg/30ml
CBG per 1ml	0.310		mg/1ml		
CBN per 1ml	0.169		mg/1ml		THC-Total per Serving Size 40.8 mg/30ml
CBT per 1ml	0.580		mg/1ml		
Δ9-THC per 1ml	1.36		mg/1ml		(Reported in milligrams per serving)
Analyte per 30ml	Result	Limits	Units	Status	
CBC per 30ml	38.2		mg/30ml		
CBD per 30ml	1020		mg/30ml		
CBD-A per 30ml	23.9		mg/30ml		
CBDV per 30ml	6.73		mg/30ml		
CBE per 30ml	11.4		mg/30ml		
CBG per 30ml	9.29		mg/30ml		
CBN per 30ml	5.07		mg/30ml		
CBT per 30ml	17.4		mg/30ml		
Δ9-THC per 30ml	40.8		mg/30ml		

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
a-Bisabolol	0.0439	100.00%	Total Terpenes	0.0439	100.00%



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Report Number: 22-008660/D003.R000
Report Date: 07/29/2022
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Purchase Order:
Received: 07/22/22 09:26

Customer: R&R
Product identity: R&R Organic Full Spectrum 1000mg Tincture - Unflavored
Client/Metric ID: Lot 1870
Laboratory ID: 22-008660-0001

Summary

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:

Less than LOQ for all analytes.



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Received: 09/08/22 08:18

Customer: R&R

Product identity: R&R Organic Full Spectrum 1000mg Tincture - Unflavored
Client/Metric ID: Lot 1870
Sample Date:
Laboratory ID: 22-010692-0001
Evidence of Cooling: No
Temp: 21.1 °C
Relinquished by: Client
Serving Size #1: 0.95 g
Serving Size #2: 28.5 g
Density: 0.9500 g/ml



Sample Results

Potency per 1ml	Method: J AOAC 2015 V98-6 (mod) ^b	Units mg/se	Batch: 2207680	Analyze: 9/12/22 8:55:00 PM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml	1.27		mg/1ml	0.0298	
CBC-A per 1ml	< LOQ		mg/1ml	0.0298	
CBC-Total per 1ml	1.27		mg/1ml	0.0559	
CBD per 1ml	34.0		mg/1ml	0.298	
CBD-A per 1ml	0.796		mg/1ml	0.0298	
CBD-Total per 1ml	34.7		mg/1ml	0.324	
CBDV per 1ml	0.224		mg/1ml	0.0298	
CBDV-A per 1ml	< LOQ		mg/1ml	0.0298	
CBDV-Total per 1ml	0.224		mg/1ml	0.0556	
CBE per 1ml	0.380		mg/1ml	0.0298	
CBG per 1ml	0.310		mg/1ml	0.0298	
CBG-A per 1ml	< LOQ		mg/1ml	0.0298	
CBG-Total per 1ml	0.310		mg/1ml	0.0556	
CBL per 1ml	< LOQ		mg/1ml	0.0298	
CBL-A per 1ml	< LOQ		mg/1ml	0.0298	
CBL-Total per 1ml	< LOQ		mg/1ml	0.0559	
CBN per 1ml	0.169		mg/1ml	0.0298	
CBT per 1ml	0.580		mg/1ml	0.0298	
Δ8-THCV per 1ml	< LOQ		mg/1ml	0.0298	
Δ10-THC per 1ml	< LOQ		mg/1ml	0.0298	
Δ8-THC per 1ml	< LOQ		mg/1ml	0.0298	
Δ9-THC per 1ml	1.36		mg/1ml	0.0298	
exo-THC per 1ml	< LOQ		mg/1ml	0.0298	
THC-A per 1ml	< LOQ		mg/1ml	0.0298	
THC-Total per 1ml	1.36		mg/1ml	0.0559	
THCV per 1ml	< LOQ		mg/1ml	0.0298	
THCV-A per 1ml	< LOQ		mg/1ml	0.0298	
THCV-Total per 1ml	< LOQ		mg/1ml	0.0559	



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Potency per 1ml **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2207680 **Analyze:** 9/12/22 8:55:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
Total Cannabinoids per 1ml	39.1		mg/1ml		

Potency per 30ml **Method:** J AOAC 2015 V98-6 (mod)^b **Units** mg/se **Batch:** 2207680 **Analyze:** 9/12/22 8:55:00 PM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 30ml	38.2		mg/30ml	0.894	
CBC-A per 30ml	< LOQ		mg/30ml	0.894	
CBC-Total per 30ml	38.2		mg/30ml	1.68	
CBD per 30ml	1020		mg/30ml	8.94	
CBD-A per 30ml	23.9		mg/30ml	0.894	
CBD-Total per 30ml	1040		mg/30ml	9.72	
CBDV per 30ml	6.73		mg/30ml	0.894	
CBDV-A per 30ml	< LOQ		mg/30ml	0.894	
CBDV-Total per 30ml	6.73		mg/30ml	1.67	
CBE per 30ml	11.4		mg/30ml	0.894	
CBG per 30ml	9.29		mg/30ml	0.894	
CBG-A per 30ml	< LOQ		mg/30ml	0.894	
CBG-Total per 30ml	9.29		mg/30ml	1.67	
CBL per 30ml	< LOQ		mg/30ml	0.894	
CBL-A per 30ml	< LOQ		mg/30ml	0.894	
CBL-Total per 30ml	< LOQ		mg/30ml	1.68	
CBN per 30ml	5.07		mg/30ml	0.894	
CBT per 30ml	17.4		mg/30ml	0.894	
Δ8-THCV per 30ml	< LOQ		mg/30ml	0.894	
Δ10-THC per 30ml	< LOQ		mg/30ml	0.894	
Δ8-THC per 30ml	< LOQ		mg/30ml	0.894	
Δ9-THC per 30ml	40.8		mg/30ml	0.894	
exo-THC per 30ml	< LOQ		mg/30ml	0.894	
THC-A per 30ml	< LOQ		mg/30ml	0.894	
THC-Total per 30ml	40.8		mg/30ml	1.68	
THCV per 30ml	< LOQ		mg/30ml	0.894	
THCV-A per 30ml	< LOQ		mg/30ml	0.894	
THCV-Total per 30ml	< LOQ		mg/30ml	1.68	
Total Cannabinoids per 30ml	1170		mg/30ml		

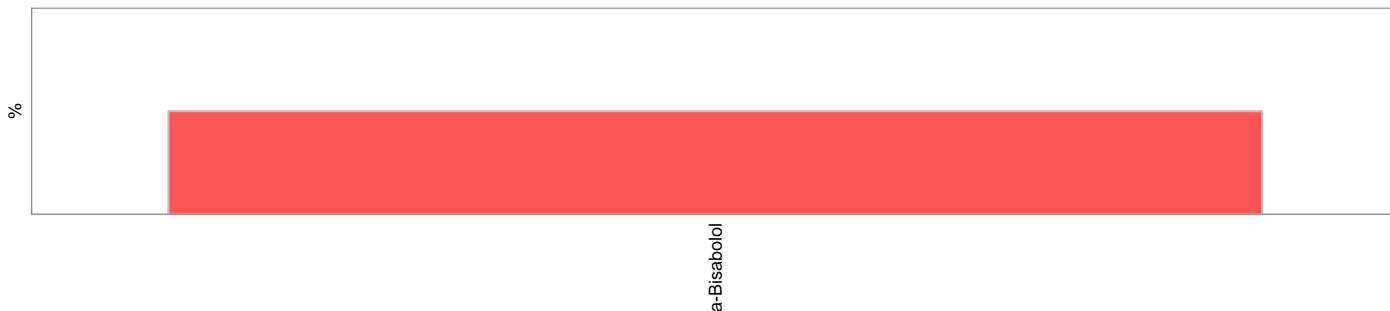


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Terpenes				Method: J AOAC 2015 V98-6	Units %	Batch 2207727	Analyze 09/13/22 08:29 PM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
a-Bisabolol	0.0439	0.018	100.0000%		a-cedrene	< LOQ	0.018	0.00%	
farnesene	< LOQ	0.018	0.00%		β-Caryophyllene	< LOQ	0.018	0.00%	
(-)-Guaiol	< LOQ	0.018	0.00%		(-)-caryophyllene oxide	< LOQ	0.018	0.00%	
nerol	< LOQ	0.018	0.00%		Humulene	< LOQ	0.018	0.00%	
gamma-Terpinene	< LOQ	0.018	0.00%		Geraniol	< LOQ	0.018	0.00%	
Geranyl acetate	< LOQ	0.018	0.00%		(-)-Isopulegol	< LOQ	0.018	0.00%	
Linalool	< LOQ	0.018	0.00%		(±)-Camphor	< LOQ	0.018	0.00%	
(±)-trans-Nerolidol	< LOQ	0.018	0.00%		Menthol	< LOQ	0.018	0.00%	
valencene	< LOQ	0.018	0.00%		(+)-Pulegone	< LOQ	0.018	0.00%	
Isorneol	< LOQ	0.018	0.00%		(+)-Borneol	< LOQ	0.018	0.00%	
(-)-a-Terpineol	< LOQ	0.018	0.00%		Sabinene hydrate	< LOQ	0.018	0.00%	
(±)-cis-Nerolidol	< LOQ	0.018	0.00%		(+)-Cedrol	< LOQ	0.018	0.00%	
Terpinolene	< LOQ	0.018	0.00%		d-3-Carene	< LOQ	0.018	0.00%	
a-pinene	< LOQ	0.018	0.00%		(-)-β-Pinene	< LOQ	0.018	0.00%	
(+)-fenchol	< LOQ	0.018	0.00%		(±)-fenchone	< LOQ	0.018	0.00%	
(R)-(+)-Limonene	< LOQ	0.018	0.00%		a-phellandrene	< LOQ	0.018	0.00%	
a-Terpinene	< LOQ	0.018	0.00%		Camphene	< LOQ	0.018	0.00%	
cis-β-Ocimene	< LOQ	0.006	0.00%		Eucalyptol	< LOQ	0.018	0.00%	
p-Cymene	< LOQ	0.018	0.00%		Sabinene	< LOQ	0.018	0.00%	
β-Myrcene	< LOQ	0.018	0.00%		trans-β-Ocimene	< LOQ	0.012	0.00%	
Total Terpenes	0.0439								





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Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000	cfu/g	10	2206225	07/25/22 AOAC 990.12 (Petrifilm) ^b	pass	
E.coli	< LOQ	100.00	cfu/g	10	2206223	07/25/22 AOAC 991.14 (Petrifilm) ^b	pass	
Total Coliforms	< LOQ	100.00	cfu/g	10	2206223	07/25/22 AOAC 991.14 (Petrifilm) ^b	pass	
Mold (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2206224	07/26/22 AOAC 2014.05 (RAPID) ^b	pass	
Yeast (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2206224	07/26/22 AOAC 2014.05 (RAPID) ^b	pass	
Salmonella spp. by PCR	Negative		/25g		2206227	07/24/22 AOAC 2020.02 ^b		
EHEC including STEC	Negative		/25g		2206228	07/24/22 AOAC RI 121806 ^b		

Solvents Method: Residual Solvents by GC/MS^b Units µg/g Batch 2206273 Analyze 07/26/22 11:02 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	60.0	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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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg		Batch 2206282		Analyze 07/26/22 01:57 PM	
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Abamectin	< LOQ		0.070			Acephate	< LOQ		0.020		
Acequinocyl	< LOQ		0.025			Acetamiprid	< LOQ		0.050		
Aldicarb	< LOQ		0.100			Allethrin	< LOQ		0.100		
Atrazine	< LOQ		0.025			Azadirachtin	< LOQ		0.500		
Azoxystrobin	< LOQ		0.010			Benzovindiflupyr	< LOQ		0.010		
Bifenazate	< LOQ		0.010			Bifenthrin	< LOQ		0.100		
Boscalid	< LOQ		0.010			Buprofezin	< LOQ		0.010		
Carbaryl	< LOQ		0.025			Carbofuran	< LOQ		0.010		
Chlorantraniliprole	< LOQ		0.010			Chlorfenapyr	< LOQ		0.100		
Chlorpyrifos	< LOQ		0.010			Clofentezine	< LOQ		0.010		
Clothianidin	< LOQ		0.025			Coumaphos	< LOQ		0.010		
Cyantraniliprole	< LOQ		0.010			Cyfluthrin	< LOQ		0.200		
Cyhalothrin,lambda	< LOQ		0.250			Cypermethrin	< LOQ		0.300		
Cyprodinil	< LOQ		0.010			Daminozide	< LOQ		0.050		
Deltamethrin	< LOQ		0.500			Diazinon	< LOQ		0.010		
Dichlorvos	< LOQ		0.050			Dimethoate	< LOQ		0.010		
Dimethomorph	< LOQ		0.050			Dinotefuran	< LOQ		0.050		
Diuron	< LOQ		0.125			Dodemorph	< LOQ		0.050		
Endosulfan I (alpha)	< LOQ		0.050			Endosulfan II (beta)	< LOQ		0.050		
Endosulfan sulfate	< LOQ		0.050			Ethoprophos	< LOQ		0.010		
Etofenprox	< LOQ		0.010			Etoxazole	< LOQ		0.010		
Etridiazole	< LOQ		0.050			Fenhexamid	< LOQ		0.100		
Fenoxycarb	< LOQ		0.010			Fenpyroximate	< LOQ		0.020		
Fensulfothion	< LOQ		0.010			Fenthion	< LOQ		0.010		
Fenvalerate	< LOQ		0.200			Fipronil	< LOQ		0.010		
Flonicamid	< LOQ		0.025			Fludioxonil	< LOQ		0.010		
Fluopyram	< LOQ		0.010			Hexythiazox	< LOQ		0.010		
Imazalil	< LOQ		0.010			Imidacloprid	< LOQ		0.010		
Iprodione	< LOQ		0.500			Kinoprene	< LOQ		0.200		
Kresoxim-methyl	< LOQ		0.010			Malathion	< LOQ		0.010		
Metalaxyl	< LOQ		0.010			Methiocarb	< LOQ		0.010		
Methomyl	< LOQ		0.025			Methoprene	< LOQ		1.00		
Mevinphos	< LOQ		0.025			MGK-264	< LOQ		0.050		
Myclobutanil	< LOQ		0.010			Naled	< LOQ		0.100		
Novaluron	< LOQ		0.025			Oxamyl	< LOQ		0.500		
Paclobutrazole	< LOQ		0.010			Parathion-Methyl	< LOQ		0.030		
Permethrin	< LOQ		0.040			Phenothrin	< LOQ		0.025		
Phosmet	< LOQ		0.010			Piperonyl butoxide	< LOQ		0.200		
Pirimicarb	< LOQ		0.010			Prallethrin	< LOQ		0.050		
Propiconazole	< LOQ		0.010			Propoxur	< LOQ		0.010		
Pyraclostrobin	< LOQ		0.010			Pyrethrins (total)	< LOQ		0.025		
Pyridaben	< LOQ		0.020			Pyriproxyfen	< LOQ		0.010		
Quintozene	< LOQ		0.020			Resmethrin	< LOQ		0.020		
Spinetoram	< LOQ		0.010			Spinosad	< LOQ		0.010		
Spirodiclofen	< LOQ		0.250			Spiromesifen	< LOQ		0.030		
Spirotetramat	< LOQ		0.010			Spiroxamine	< LOQ		0.010		



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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)						Units mg/kg	Batch 2206282	Analyze 07/26/22 01:57 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes
Tebuconazole	< LOQ		0.010			Tebufenozide	< LOQ		0.010		
Teflubenzuron	< LOQ		0.025			Tetrachlorvinphos	< LOQ		0.010		
Tetramethrin	< LOQ		0.050			Thiacloprid	< LOQ		0.010		
Thiamethoxam	< LOQ		0.010			Thiophanate-Methyl	< LOQ		0.030		
Trifloxystrobin	< LOQ		0.010								

Metals											
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes		
Arsenic	< LOQ	1.50	mg/kg	0.0923	2206371	07/27/22	AOAC 2013.06 (mod.) ^p	pass			
Cadmium	< LOQ	0.50	mg/kg	0.0923	2206371	07/27/22	AOAC 2013.06 (mod.) ^p	pass			
Lead	< LOQ	0.50	mg/kg	0.0923	2206371	07/27/22	AOAC 2013.06 (mod.) ^p	pass			
Mercury	< LOQ	1.50	mg/kg	0.0461	2206371	07/27/22	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	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass			
Aflatoxin B1 [‡]	< LOQ	5.00	µg/kg	5.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass			
Aflatoxin G1 [‡]	< LOQ	5.00	µg/kg	5.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass			
Aflatoxin G2 [‡]	< LOQ	5.00	µg/kg	5.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass			
Ochratoxin A [‡]	< LOQ	5.00	µg/kg	5.00	2206365	07/28/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass			
Total Aflatoxins [‡]	0.000		µg/kg	20.0		07/29/22	AOAC 2007.01 & EN 15662 (mod) ^p				



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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, 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.

^b = ISO/IEC 17025:2017 accredited method.

Units of Measure

- g = g
- g/ml = Gram per milliliter
- mg/1ml = Milligram per 1ml
- mg/30ml = Milligram per 30ml
- % = Percentage of sample
- % wt = $\mu\text{g/g}$ divided by 10,000

Approved Signatory

Derrick Tanner
General Manager