



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



Report Number: 22-004721/D041.R000
Report Date: 05/13/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/26/22 15:19

Customer: R&R
Product identity: R&R Organic Full Spectrum 1000mg Tincture - Unflavored
Client/Metric ID: Lot 1869
Laboratory ID: 22-004721-0007

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBC per 1ml†	1.51		mg/1ml		CBD-Total per 1ml 35.1 mg/1ml
CBD per 1ml	34.8		mg/1ml		
CBD-A per 1ml	0.420		mg/1ml		THC-Total per 1ml 1.46 mg/1ml
CBDV per 1ml†	0.368		mg/1ml		
CBE per 1ml†	0.288		mg/1ml		CBD-Total per 30ml 1050 mg/30ml
CBG per 1ml†	1.59		mg/1ml		
CBN per 1ml	0.129		mg/1ml		THC-Total per 30ml 43.9 mg/30ml
CBT per 1ml†	0.766		mg/1ml		
Δ9-THC per 1ml	1.46		mg/1ml		(Reported in milligrams per serving)
Analyte per 30ml	Result	Limits	Units	Status	
CBC per 30ml†	45.4		mg/30ml		
CBD per 30ml	1040		mg/30ml		
CBD-A per 30ml	12.6		mg/30ml		
CBDV per 30ml†	11.0		mg/30ml		
CBE per 30ml†	8.65		mg/30ml		
CBG per 30ml†	47.6		mg/30ml		
CBN per 30ml	3.88		mg/30ml		
CBT per 30ml†	23.0		mg/30ml		
Δ9-THC per 30ml	43.9		mg/30ml		

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.



Customer: R&R
 United States of America (USA)
Product identity: R&R Organic Full Spectrum 1000mg Tincture - Unflavored
Client/Metric ID: Lot 1869
Sample Date:
Laboratory ID: 22-004721-0007
Evidence of Cooling: No
Temp: 18.8 °C
Relinquished by: USPS
Serving Size #1: 0.945 g
Serving Size #2: 28.35 g
Density: 0.9450 g/ml



Sample Results

Potency per 1ml	Method J AOAC 2015 V98-6 (mod)Units mg/se			Batch: 2203744	Analyze: 5/2/22 1:19:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml [†]	1.51		mg/1ml	0.0306	
CBC-A per 1ml [†]	< LOQ		mg/1ml	0.0306	
CBC-Total per 1ml [†]	1.51		mg/1ml	0.0575	
CBD per 1ml	34.8		mg/1ml	0.306	
CBD-A per 1ml	0.420		mg/1ml	0.0306	
CBD-Total per 1ml	35.1		mg/1ml	0.333	
CBDV per 1ml [†]	0.368		mg/1ml	0.0306	
CBDV-A per 1ml [†]	< LOQ		mg/1ml	0.0306	
CBDV-Total per 1ml [†]	0.368		mg/1ml	0.0572	
CBE per 1ml [†]	0.288		mg/1ml	0.0306	
CBG per 1ml [†]	1.59		mg/1ml	0.0306	
CBG-A per 1ml [†]	< LOQ		mg/1ml	0.0306	
CBG-Total per 1ml [†]	1.59		mg/1ml	0.0572	
CBL per 1ml [†]	< LOQ		mg/1ml	0.0306	
CBL-A per 1ml [†]	< LOQ		mg/1ml	0.0306	
CBL-Total per 1ml [†]	< LOQ		mg/1ml	0.0575	
CBN per 1ml	0.129		mg/1ml	0.0306	
CBT per 1ml [†]	0.766		mg/1ml	0.0306	
Δ8-THCV per 1ml [†]	< LOQ		mg/1ml	0.0306	
Δ8-THC per 1ml [†]	< LOQ		mg/1ml	0.0306	
Δ9-THC per 1ml	1.46		mg/1ml	0.0306	
exo-THC per 1ml [†]	< LOQ		mg/1ml	0.0306	
THC-A per 1ml	< LOQ		mg/1ml	0.0306	
THC-Total per 1ml	1.46		mg/1ml	0.0575	
THCV per 1ml [†]	< LOQ		mg/1ml	0.0306	
THCV-A per 1ml [†]	< LOQ		mg/1ml	0.0306	
THCV-Total per 1ml [†]	< LOQ		mg/1ml	0.0575	



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Potency per 30ml **Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2203744 Analyze: 5/2/22 1:19:00 PM**

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 30ml [†]	45.4		mg/30ml	0.919	
CBC-A per 30ml [†]	< LOQ		mg/30ml	0.919	
CBC-Total per 30ml [†]	45.4		mg/30ml	1.73	
CBD per 30ml	1040		mg/30ml	9.19	
CBD-A per 30ml	12.6		mg/30ml	0.919	
CBD-Total per 30ml	1050		mg/30ml	10.0	
CBDV per 30ml [†]	11.0		mg/30ml	0.919	
CBDV-A per 30ml [†]	< LOQ		mg/30ml	0.919	
CBDV-Total per 30ml [†]	11.0		mg/30ml	1.72	
CBE per 30ml [†]	8.65		mg/30ml	0.919	
CBG per 30ml [†]	47.6		mg/30ml	0.919	
CBG-A per 30ml [†]	< LOQ		mg/30ml	0.919	
CBG-Total per 30ml [†]	47.6		mg/30ml	1.72	
CBL per 30ml [†]	< LOQ		mg/30ml	0.919	
CBL-A per 30ml [†]	< LOQ		mg/30ml	0.919	
CBL-Total per 30ml [†]	< LOQ		mg/30ml	1.73	
CBN per 30ml	3.88		mg/30ml	0.919	
CBT per 30ml [†]	23.0		mg/30ml	0.919	
Δ8-THCV per 30ml [†]	< LOQ		mg/30ml	0.919	
Δ8-THC per 30ml [†]	< LOQ		mg/30ml	0.919	
Δ9-THC per 30ml	43.9		mg/30ml	0.919	
exo-THC per 30ml [†]	< LOQ		mg/30ml	0.919	
THC-A per 30ml	< LOQ		mg/30ml	0.919	
THC-Total per 30ml	43.9		mg/30ml	1.73	
THCV per 30ml [†]	< LOQ		mg/30ml	0.919	
THCV-A per 30ml [†]	< LOQ		mg/30ml	0.919	
THCV-Total per 30ml [†]	< LOQ		mg/30ml	1.73	

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000.00	cfu/g	10	2203844	05/07/22	AOAC 990.12 (Petrifilm)	pass	X
E.coli	< LOQ	100.00	cfu/g	10	2203842	05/07/22	AOAC 991.14 (Petrifilm)	pass	X
Total Coliforms	< LOQ	100.00	cfu/g	10	2203842	05/07/22	AOAC 991.14 (Petrifilm)	pass	X
Mold (RAPID Petrifilm)	< LOQ	1,000.00	cfu/g	10	2203843	05/08/22	AOAC 2014.05 (RAPID)	pass	X
Yeast (RAPID Petrifilm)	< LOQ	1,000.00	cfu/g	10	2203843	05/08/22	AOAC 2014.05 (RAPID)	pass	X
Salmonella spp. by PCR	Negative		/25g		2203848	05/06/22	AOAC 2020.02		X
EHEC including STEC	Negative		/25g		2203851	05/06/22	AOAC RI 121806		X

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAP and the Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.

Testing in accordance with: OAR 333-007-0390 OAR 333-007-0410 OAR 333-007-0430



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Solvents				Residual Solvents by GC/MS				Units µg/g		Batch 2204080		Analyze 05/12/22 12:27 PM			
Analyte	Result	Limits	LOQ	Status	Notes	Analyte	Result	Limits	LOQ	Status	Notes				
2-Methylbutane (Isopentane)	< LOQ	1000	200			2-Methylpentane	< LOQ	60.0	30.0						
2-Propanol (IPA)	< LOQ	1000	200			2,2-Dimethylbutane	< LOQ	60.0	30.0						
2,2-Dimethylpropane (neo-pentane)	< LOQ	1000	200			2,3-Dimethylbutane	< LOQ	60.0	30.0						
3-Methylpentane	< LOQ	60.0	30.0			Acetone	< LOQ	1000	200						
Benzene	< LOQ	2.00	1.00			Butanes (sum)	< LOQ	1000	400						
Ethanol ¹	< LOQ	1000	200			Ethyl acetate	< LOQ	1000	200						
Hexanes (sum)	< LOQ	60.0	150			m,p-Xylene	< LOQ	430	200						
Methanol	< LOQ	600	200			Methylpropane (Isobutane)	< LOQ	1000	200						
n-Butane	< LOQ	1000	200			n-Heptane	< LOQ	1000	200						
n-Hexane	< LOQ	60.0	30.0			n-Pentane	< LOQ	1000	200						
o-Xylene	< LOQ	430	200			Pentanes (sum)	< LOQ	1000	600						
Propane	< LOQ	1000	200			Toluene	< LOQ	180	100						
Total Xylenes	< LOQ	430	400												



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Pesticides											
Method AOAC 2007.01 & EN 15662 (mod) Units mg/kg Batch 2203876 Analyze 05/05/22 03:24 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			Bifenazate	< LOQ		0.010		
Bifenthrin	< LOQ		0.100			Boscalid	< 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		
Cyfluthrin	< LOQ		0.200			Cypermethrin	< LOQ		0.300		
Daminozide	< LOQ		0.050			Diazinon	< LOQ		0.010		
Dichlorvos	< LOQ		0.050			Dimethoate	< LOQ		0.010		
Ethoprophos	< LOQ		0.010			Etofenprox	< LOQ		0.010		
Etoxazole	< LOQ		0.010			Fenoxycarb	< LOQ		0.010		
Fenpyroximate	< LOQ		0.020			Fipronil	< LOQ		0.010		
Flonicamid	< LOQ		0.025			Fludioxonil	< LOQ		0.010		
Hexythiazox	< LOQ		0.010			Imazalil	< LOQ		0.010		
Imidacloprid	< LOQ		0.010			Kresoxim-methyl	< LOQ		0.010		
Malathion	< LOQ		0.010			Metalaxyl	< LOQ		0.010		
Methiocarb	< LOQ		0.010			Methomyl	< LOQ		0.025		
MGK-264	< LOQ		0.050			Myclobutanil	< LOQ		0.010		
Naled	< LOQ		0.100			Oxamyl	< LOQ		0.500		
Paclbutrazole	< LOQ		0.010			Parathion-Methyl	< LOQ		0.030		
Permethrin	< LOQ		0.040			Phosmet	< LOQ		0.010		
Piperonyl butoxide	< LOQ		0.200			Prallethrin	< LOQ		0.050		
Propiconazole	< LOQ		0.010			Propoxur	< LOQ		0.010		
Pyrethrins (total)	< LOQ		0.025			Pyridaben	< LOQ		0.020		
Spinosad	< LOQ		0.010			Spiromesifen	< LOQ		0.030		
Spirotetramat	< LOQ		0.010			Spiroxamine	< LOQ		0.010		
Tebuconazole	< LOQ		0.010			Thiacloprid	< LOQ		0.010		
Thiamethoxam	< LOQ		0.010			Trifloxystrobin	< LOQ		0.010		

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes	
Arsenic	< LOQ	1.50	mg/kg	0.0990	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.50	mg/kg	0.0990	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.50	mg/kg	0.0990	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	1.50	mg/kg	0.0495	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	



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Mycotoxins

Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes
Aflatoxin B2†	< LOQ	5.00	µg/kg	5.00	2204056	05/11/22	AOAC 2007.01 & EN 15	pass	
Aflatoxin B1†	< LOQ	5.00	µg/kg	5.00	2204056	05/11/22	AOAC 2007.01 & EN 15	pass	
Aflatoxin G1†	< LOQ	5.00	µg/kg	5.00	2204056	05/11/22	AOAC 2007.01 & EN 15	pass	
Aflatoxin G2†	< LOQ	5.00	µg/kg	5.00	2204056	05/11/22	AOAC 2007.01 & EN 15	pass	
Deoxynivalenol†	< LOQ		µg/kg	200	2204056	05/11/22	AOAC 2007.01 & EN 15		
Fumonisin B1†	< LOQ		µg/kg	200	2204056	05/11/22	AOAC 2007.01 & EN 15		
Fumonisin B2†	< LOQ		µg/kg	200	2204056	05/11/22	AOAC 2007.01 & EN 15		
HT2-Toxin†	< LOQ		µg/kg	40.0	2204056	05/11/22	AOAC 2007.01 & EN 15		
Ochratoxin A†	< LOQ	5.00	µg/kg	5.00	2204056	05/11/22	AOAC 2007.01 & EN 15	pass	
Ochratoxin B†	< LOQ		µg/kg	2.00	2204056	05/11/22	AOAC 2007.01 & EN 15		
T2-Toxin†	< LOQ		µg/kg	20.0	2204056	05/11/22	AOAC 2007.01 & EN 15		
Zearalenone†	< LOQ		µg/kg	200	2204056	05/11/22	AOAC 2007.01 & EN 15		



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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.

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

† = Analyte not NELAP accredited.

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

g = g

g/ml = Gram per milliliter

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

Glossary of Qualifiers

X: Not ORELAP accredited.

Approved Signatory

Derrick Tanner
General Manager