



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



**Report Number:** 22-004721/D039.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 2500mg Tincture - Fresh Mint  
**Client/Metric ID:** Lot 0016  
**Laboratory ID:** 22-004721-0009

### Summary

**Potency:**

Analyte per 0.5ml	Result	Limits	Units	Status	
CBC per 0.5ml†	1.63		mg/0.5ml		CBD-Total per 0.5ml 42.6 mg/0.5ml
CBD per 0.5ml	41.9		mg/0.5ml		
CBD-A per 0.5ml	0.755		mg/0.5ml		THC-Total per 0.5ml 1.39 mg/0.5ml
CBDV per 0.5ml†	0.237		mg/0.5ml		
CBE per 0.5ml†	0.599		mg/0.5ml		CBD-Total per 30ml 2550 mg/30ml
CBG per 0.5ml†	0.860		mg/0.5ml		
CBN per 0.5ml	0.372		mg/0.5ml		THC-Total per 30ml 83.2 mg/30ml
CBT per 0.5ml†	0.741		mg/0.5ml		
Δ9-THC per 0.5ml	1.39		mg/0.5ml		(Reported in milligrams per serving)
Analyte per 30ml	Result	Limits	Units	Status	
CBC per 30ml†	97.8		mg/30ml		
CBD per 30ml	2510		mg/30ml		
CBD-A per 30ml	45.3		mg/30ml		
CBDV per 30ml†	14.2		mg/30ml		
CBE per 30ml†	35.9		mg/30ml		
CBG per 30ml†	51.6		mg/30ml		
CBN per 30ml	22.3		mg/30ml		
CBT per 30ml†	44.5		mg/30ml		
Δ9-THC per 30ml	83.2		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.



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**Customer:** R&R  
United States of America (USA)  
**Product identity:** R&R Organic Full Spectrum 2500mg Tincture - Fresh Mint  
**Client/Metric ID:** Lot 0016  
**Sample Date:**  
**Laboratory ID:** 22-004721-0009  
**Evidence of Cooling:** No  
**Temp:** 18.8 °C  
**Relinquished by:** USPS  
**Serving Size #1:** 0.475 g  
**Serving Size #2:** 28.5 g  
**Density:** 0.9500 g/ml



## Sample Results

Potency per 0.5ml					
Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2203744 Analyze: 5/2/22 1:34:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 0.5ml <sup>†</sup>	1.63		mg/0.5ml	0.0157	
CBC-A per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
CBC-Total per 0.5ml <sup>†</sup>	1.63		mg/0.5ml	0.0295	
CBD per 0.5ml	41.9		mg/0.5ml	0.157	
CBD-A per 0.5ml	0.755		mg/0.5ml	0.0157	
CBD-Total per 0.5ml	42.6		mg/0.5ml	0.171	
CBDV per 0.5ml <sup>†</sup>	0.237		mg/0.5ml	0.0157	
CBDV-A per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
CBDV-Total per 0.5ml <sup>†</sup>	0.237		mg/0.5ml	0.0293	
CBE per 0.5ml <sup>†</sup>	0.599		mg/0.5ml	0.0157	
CBG per 0.5ml <sup>†</sup>	0.860		mg/0.5ml	0.0157	
CBG-A per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
CBG-Total per 0.5ml <sup>†</sup>	0.860		mg/0.5ml	0.0293	
CBL per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
CBL-A per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
CBL-Total per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0295	
CBN per 0.5ml	0.372		mg/0.5ml	0.0157	
CBT per 0.5ml <sup>†</sup>	0.741		mg/0.5ml	0.0157	
Δ8-THCV per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
Δ8-THC per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
Δ9-THC per 0.5ml	1.39		mg/0.5ml	0.0157	
exo-THC per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
THC-A per 0.5ml	< LOQ		mg/0.5ml	0.0157	
THC-Total per 0.5ml	1.39		mg/0.5ml	0.0295	
THCV per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
THCV-A per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0157	
THCV-Total per 0.5ml <sup>†</sup>	< LOQ		mg/0.5ml	0.0295	



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Potency per 30ml **Method J AOAC 2015 V98-6 (mod)Units mg/se Batch: 2203744 Analyze: 5/2/22 1:34:00 PM**

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 30ml <sup>†</sup>	97.8		mg/30ml	0.942	
CBC-A per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
CBC-Total per 30ml <sup>†</sup>	97.8		mg/30ml	1.77	
CBD per 30ml	2510		mg/30ml	9.42	
CBD-A per 30ml	45.3		mg/30ml	0.942	
CBD-Total per 30ml	2550		mg/30ml	10.3	
CBDV per 30ml <sup>†</sup>	14.2		mg/30ml	0.942	
CBDV-A per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
CBDV-Total per 30ml <sup>†</sup>	14.2		mg/30ml	1.76	
CBE per 30ml <sup>†</sup>	35.9		mg/30ml	0.942	
CBG per 30ml <sup>†</sup>	51.6		mg/30ml	0.942	
CBG-A per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
CBG-Total per 30ml <sup>†</sup>	51.6		mg/30ml	1.76	
CBL per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
CBL-A per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
CBL-Total per 30ml <sup>†</sup>	< LOQ		mg/30ml	1.77	
CBN per 30ml	22.3		mg/30ml	0.942	
CBT per 30ml <sup>†</sup>	44.5		mg/30ml	0.942	
Δ8-THCV per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
Δ8-THC per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
Δ9-THC per 30ml	83.2		mg/30ml	0.942	
exo-THC per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
THC-A per 30ml	< LOQ		mg/30ml	0.942	
THC-Total per 30ml	83.2		mg/30ml	1.77	
THCV per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
THCV-A per 30ml <sup>†</sup>	< LOQ		mg/30ml	0.942	
THCV-Total per 30ml <sup>†</sup>	< LOQ		mg/30ml	1.77	

**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



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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 <sup>1</sup>	< 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	0.0912	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.50	mg/kg	0.0912	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.50	mg/kg	0.0912	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	1.50	mg/kg	0.0456	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		



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/0.5ml = Milligram per 0.5ml

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