



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



Report Number: 22-004721/D038.R001
Report Date: 06/23/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/26/22 15:19

This is an amended version of report# 22-004721/D038.R000.
Reason: Combine results with report 22-007159/D013.R000.

Customer: R&R
Product identity: R&R Organic Full Spectrum 2500mg Tincture - Unflavored
Client/Metric ID: Lot 4402
Laboratory ID: 22-004721-0010

Summary

Potency:

Analyte per 0.5ml	Result	Limits	Units	Status	
CBC per 0.5ml†	1.62		mg/0.5ml		CBD-Total per 0.5ml 43.3 mg/0.5ml
CBD per 0.5ml	42.8		mg/0.5ml		
CBD-A per 0.5ml	0.551		mg/0.5ml		THC-Total per 0.5ml 1.13 mg/0.5ml
CBDV per 0.5ml†	0.224		mg/0.5ml		
CBE per 0.5ml†	0.789		mg/0.5ml		CBD-Total per 30ml 2600 mg/30ml
CBG per 0.5ml†	1.13		mg/0.5ml		
CBN per 0.5ml	0.475		mg/0.5ml		THC-Total per 30ml 67.8 mg/30ml
CBT per 0.5ml†	0.603		mg/0.5ml		
Δ9-THC per 0.5ml	1.13		mg/0.5ml		(Reported in milligrams per serving)
Analyte per 30ml	Result	Limits	Units	Status	
CBC per 30ml†	96.9		mg/30ml		
CBD per 30ml	2570		mg/30ml		
CBD-A per 30ml	33.1		mg/30ml		
CBDV per 30ml†	13.4		mg/30ml		
CBE per 30ml†	47.3		mg/30ml		
CBG per 30ml†	67.5		mg/30ml		
CBN per 30ml	28.5		mg/30ml		
CBT per 30ml†	36.2		mg/30ml		
Δ9-THC per 30ml	67.8		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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Report Number: 22-007159/D013.R000
Report Date: 06/23/2022
ORELAP#: OR100028
Purchase Order:
Received: 06/17/22 12:05

Customer: R&R
Product identity: R&R Organic Full Spectrum 2500mg Tincture - Unflavored
Client/Metric ID: Lot 4402
Laboratory ID: 22-007159-0010

Summary

Terpenes:

Analyte	Percent by weight	Percent of Total	Analyte	Percent by weight	Percent of Total
a-Bisabolol [†]	0.0674	57.12%	β-Caryophyllene [†]	0.0272	23.05%
(-)-Guaiol [†]	0.0237	20.08%	Total Terpenes[†]	0.118	100.00%



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Report Number: 22-004721/D038.R001
Report Date: 06/23/2022
ORELAP#: OR100028
Purchase Order:
Received: 04/26/22 15:19

Customer: R&R
United States of America (USA)
Product identity: R&R Organic Full Spectrum 2500mg Tincture - Unflavored
Client/Metric ID: Lot 4402
Sample Date:
Laboratory ID: 22-004721-0010
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 1:42:00 PM					
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 0.5ml [†]	1.62		mg/0.5ml	0.0157	
CBC-A per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
CBC-Total per 0.5ml [†]	1.62		mg/0.5ml	0.0295	
CBD per 0.5ml	42.8		mg/0.5ml	0.157	
CBD-A per 0.5ml	0.551		mg/0.5ml	0.0157	
CBD-Total per 0.5ml	43.3		mg/0.5ml	0.171	
CBDV per 0.5ml [†]	0.224		mg/0.5ml	0.0157	
CBDV-A per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
CBDV-Total per 0.5ml [†]	0.224		mg/0.5ml	0.0293	
CBE per 0.5ml [†]	0.789		mg/0.5ml	0.0157	
CBG per 0.5ml [†]	1.13		mg/0.5ml	0.0157	
CBG-A per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
CBG-Total per 0.5ml [†]	1.13		mg/0.5ml	0.0293	
CBL per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
CBL-A per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
CBL-Total per 0.5ml [†]	< LOQ		mg/0.5ml	0.0295	
CBN per 0.5ml	0.475		mg/0.5ml	0.0157	
CBT per 0.5ml [†]	0.603		mg/0.5ml	0.0157	
Δ8-THCV per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
Δ8-THC per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
Δ9-THC per 0.5ml	1.13		mg/0.5ml	0.0157	
exo-THC per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
THC-A per 0.5ml	< LOQ		mg/0.5ml	0.0157	
THC-Total per 0.5ml	1.13		mg/0.5ml	0.0295	
THCV per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
THCV-A per 0.5ml [†]	< LOQ		mg/0.5ml	0.0157	
THCV-Total per 0.5ml [†]	< 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 1:42:00 PM**

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 30ml [†]	96.9		mg/30ml	0.943	
CBC-A per 30ml [†]	< LOQ		mg/30ml	0.943	
CBC-Total per 30ml [†]	96.9		mg/30ml	1.77	
CBD per 30ml	2570		mg/30ml	9.43	
CBD-A per 30ml	33.1		mg/30ml	0.943	
CBD-Total per 30ml	2600		mg/30ml	10.3	
CBDV per 30ml [†]	13.4		mg/30ml	0.943	
CBDV-A per 30ml [†]	< LOQ		mg/30ml	0.943	
CBDV-Total per 30ml [†]	13.4		mg/30ml	1.76	
CBE per 30ml [†]	47.3		mg/30ml	0.943	
CBG per 30ml [†]	67.5		mg/30ml	0.943	
CBG-A per 30ml [†]	< LOQ		mg/30ml	0.943	
CBG-Total per 30ml [†]	67.5		mg/30ml	1.76	
CBL per 30ml [†]	< LOQ		mg/30ml	0.943	
CBL-A per 30ml [†]	< LOQ		mg/30ml	0.943	
CBL-Total per 30ml [†]	< LOQ		mg/30ml	1.77	
CBN per 30ml	28.5		mg/30ml	0.943	
CBT per 30ml [†]	36.2		mg/30ml	0.943	
Δ8-THCV per 30ml [†]	< LOQ		mg/30ml	0.943	
Δ8-THC per 30ml [†]	< LOQ		mg/30ml	0.943	
Δ9-THC per 30ml	67.8		mg/30ml	0.943	
exo-THC per 30ml [†]	< LOQ		mg/30ml	0.943	
THC-A per 30ml	< LOQ		mg/30ml	0.943	
THC-Total per 30ml	67.8		mg/30ml	1.77	
THCV per 30ml [†]	< LOQ		mg/30ml	0.943	
THCV-A per 30ml [†]	< LOQ		mg/30ml	0.943	
THCV-Total per 30ml [†]	< 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	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 ¹	< 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 2203876 Analyze 05/05/22 03:24 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		Bifenazate	< LOQ	0.010	0.010	pass	
Bifenthrin	< LOQ	1.0	0.100	pass		Boscalid	< LOQ	0.010	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	
Cyfluthrin	< LOQ	0.20	0.200	pass		Cypermethrin	< LOQ	0.30	0.300	pass	
Daminozide	< LOQ	0.10	0.050	pass		Diazinon	< LOQ	0.020	0.010	pass	
Dichlorvos	< LOQ	0.050	0.050	pass		Dimethoate	< LOQ	0.010	0.010	pass	
Ethoprophos	< LOQ	0.010	0.010	pass		Etofenprox	< LOQ	0.050	0.010	pass	
Etoxazole	< LOQ	0.020	0.010	pass		Fenoxycarb	< LOQ	0.010	0.010	pass	
Fenpyroximate	< LOQ	0.020	0.020	pass		Fipronil	< LOQ	0.010	0.010	pass	
Flonicamid	< LOQ	0.025	0.025	pass		Fludioxonil	< 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		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	
MGK-264	< LOQ	0.050	0.050	pass		Myclobutanil	< LOQ	0.010	0.010	pass	
Naled	< LOQ	0.10	0.100	pass		Oxamyl	< LOQ	1.5	0.500	pass	
Paclotrazole	< LOQ	0.010	0.010	pass		Parathion-Methyl	< LOQ	0.050	0.030	pass	
Permethrin	< LOQ	0.50	0.040	pass		Phosmet	< LOQ	0.020	0.010	pass	
Piperonyl butoxide	< LOQ	1.3	0.200	pass		Prallethrin	< LOQ	0.050	0.050	pass	
Propiconazole	< LOQ	0.10	0.010	pass		Propoxur	< LOQ	0.010	0.010	pass	
Pyrethrins (total)	< LOQ	0.050	0.025	pass		Pyridaben	< LOQ	0.020	0.020	pass	
Spinosad	< LOQ	0.010	0.010	pass		Spiromesifen	< LOQ	3.0	0.030	pass	
Spirotetramat	< LOQ	0.010	0.010	pass		Spiroxamine	< LOQ	0.10	0.010	pass	
Tebuconazole	< LOQ	0.010	0.010	pass		Thiacloprid	< LOQ	0.010	0.010	pass	
Thiamethoxam	< LOQ	0.010	0.010	pass		Trifloxystrobin	< LOQ	0.010	0.010	pass	

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyze	Method	Status	Notes	
Arsenic	< LOQ	1.50	mg/kg	0.0905	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	
Cadmium	< LOQ	0.50	mg/kg	0.0905	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	
Lead	< LOQ	0.50	mg/kg	0.0905	2203916	05/05/22	AOAC 2013.06 (mod.)	pass	X	
Mercury	< LOQ	1.50	mg/kg	0.0452	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		



Customer: R&R
United States of America (USA)

Product identity: R&R Organic Full Spectrum 2500mg Tincture - Unflavored

Client/Metric ID: Lot 4402

Sample Date:

Laboratory ID: 22-007159-0010

Evidence of Cooling: No

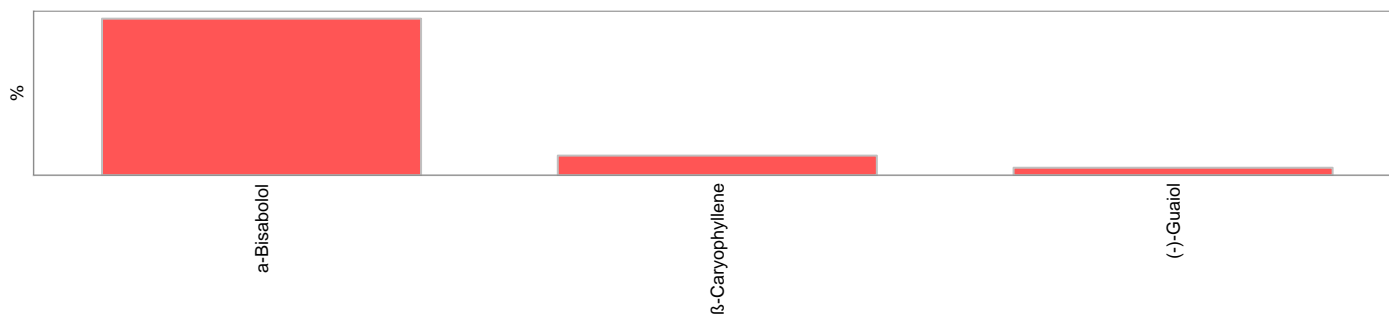
Temp: 20.3 °C

Relinquished by: UPS



Sample Results

Terpenes				Method J AOAC 2015 V98-6	Units %	Batch 2205311	Analyze 06/22/22 02:39 AM		
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes
a-Bisabolol [†]	0.0674	0.018	57.1186%		β-Caryophyllene [†]	0.0272	0.018	23.0508%	
(-)-Guaiol [†]	0.0237	0.018	20.0847%		Humulene [†]	< LOQ	0.018	0.00%	
Geraniol [†]	< LOQ	0.018	0.00%		nerol [†]	< LOQ	0.018	0.00%	
(±)-trans-Nerolidol [†]	< LOQ	0.018	0.00%		(-)-a-Terpineol [†]	< LOQ	0.018	0.00%	
(+)-Pulegone [†]	< LOQ	0.018	0.00%		Geranyl acetate [†]	< LOQ	0.018	0.00%	
(+)-fenchol [†]	< LOQ	0.018	0.00%		(+)-Borneol [†]	< LOQ	0.018	0.00%	
(-)-caryophyllene oxide [†]	< LOQ	0.018	0.00%		(-)-Isopulegol [†]	< LOQ	0.018	0.00%	
(-)-β-Pinene [†]	< LOQ	0.018	0.00%		(+)-Cedrol [†]	< LOQ	0.018	0.00%	
(±)-Camphor [†]	< LOQ	0.018	0.00%		(±)-cis-Nerolidol [†]	< LOQ	0.018	0.00%	
(±)-fenchone [†]	< LOQ	0.018	0.00%		(R)-(+)-Limonene [†]	< LOQ	0.018	0.00%	
a-cedrene [†]	< LOQ	0.018	0.00%		a-phellandrene [†]	< LOQ	0.018	0.00%	
a-pinene [†]	< 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%	
d-3-Carene [†]	< LOQ	0.018	0.00%		Eucalyptol [†]	< LOQ	0.018	0.00%	
farnesene [†]	< LOQ	0.018	0.00%		gamma-Terpinene [†]	< LOQ	0.018	0.00%	
Isoborneol [†]	< LOQ	0.018	0.00%		Linalool [†]	< LOQ	0.018	0.00%	
Menthol [†]	< LOQ	0.018	0.00%		p-Cymene [†]	< LOQ	0.018	0.00%	
Sabinene [†]	< LOQ	0.018	0.00%		Sabinene hydrate [†]	< LOQ	0.018	0.00%	
β-Myrcene [†]	< LOQ	0.018	0.00%		Terpinolene [†]	< LOQ	0.018	0.00%	
trans-β-Ocimene [†]	< LOQ	0.012	0.00%		valencene [†]	< LOQ	0.018	0.00%	
Total Terpenes	0.118								





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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/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