



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



Report Number: 22-013266/D002.R000
Report Date: 11/04/2022
ORELAP#: OR100028
Purchase Order:
Received: 10/28/22 13:10

Customer: R&R
Product identity: R&R 500mg Full Spectrum Pet Tincture - Lot 0709
Client/Metric ID: .
Laboratory ID: 22-013266-0001

Summary

Potency:

Analyte per 1ml	Result	Limits	Units	Status	
CBC per 1ml	0.607		mg/1ml		CBD-Total per Serving Size 17.4 mg/1ml
CBD per 1ml	17.2		mg/1ml		
CBD-A per 1ml	0.204		mg/1ml		THC-Total per Serving Size 0.372 mg/1ml
CBDV per 1ml	0.0868		mg/1ml		
CBG per 1ml	0.462		mg/1ml		CBD-Total per Serving Size 521 mg/30ml
CBN per 1ml	0.213		mg/1ml		
CBT per 1ml	0.244		mg/1ml		THC-Total per Serving Size 11.2 mg/30ml
Δ9-THC per 1ml	0.372		mg/1ml		
Analyte per 30ml	Result	Limits	Units	Status	(Reported in milligrams per serving)
CBC per 30ml	18.2		mg/30ml		
CBD per 30ml	516		mg/30ml		
CBD-A per 30ml	6.12		mg/30ml		
CBDV per 30ml	2.60		mg/30ml		
CBG per 30ml	13.9		mg/30ml		
CBN per 30ml	6.38		mg/30ml		
CBT per 30ml	7.31		mg/30ml		
Δ9-THC per 30ml	11.2		mg/30ml		

Residual Solvents:

All analytes passing and less than LOQ.

Pesticides:

All analytes passing and less than LOQ.

Terpenes:

Less than LOQ for all analytes.

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 500mg Full Spectrum Pet Tincture - Lot 0709

Client/Metric ID: .

Sample Date:

Laboratory ID: 22-013266-0001

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) ^b	Units mg/se	Batch: 2209356	Analyze: 11/1/22 4:29:00 AM	
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 1ml	0.607		mg/1ml	0.0307	
CBC-A per 1ml	< LOQ		mg/1ml	0.0307	
CBC-Total per 1ml	0.607		mg/1ml	0.0576	
CBD per 1ml	17.2		mg/1ml	0.307	
CBD-A per 1ml	0.204		mg/1ml	0.0307	
CBD-Total per 1ml	17.4		mg/1ml	0.334	
CBDV per 1ml	0.0868		mg/1ml	0.0307	
CBDV-A per 1ml	< LOQ		mg/1ml	0.0307	
CBDV-Total per 1ml	0.0868		mg/1ml	0.0573	
CBE per 1ml	< LOQ		mg/1ml	0.0307	
CBG per 1ml	0.462		mg/1ml	0.0307	
CBG-A per 1ml	< LOQ		mg/1ml	0.0307	
CBG-Total per 1ml	0.462		mg/1ml	0.0573	
CBL per 1ml	< LOQ		mg/1ml	0.0307	
CBL-A per 1ml	< LOQ		mg/1ml	0.0307	
CBL-Total per 1ml	< LOQ		mg/1ml	0.0576	
CBN per 1ml	0.213		mg/1ml	0.0307	
CBT per 1ml	0.244		mg/1ml	0.0307	
Δ8-THCV per 1ml	< LOQ		mg/1ml	0.0307	
Δ10-THC per 1ml	< LOQ		mg/1ml	0.0307	
Δ8-THC per 1ml	< LOQ		mg/1ml	0.0307	
Δ9-THC per 1ml	0.372		mg/1ml	0.0307	
exo-THC per 1ml	< LOQ		mg/1ml	0.0307	
THC-A per 1ml	< LOQ		mg/1ml	0.0307	
THC-Total per 1ml	0.372		mg/1ml	0.0576	
THCV per 1ml	< LOQ		mg/1ml	0.0307	
THCV-A per 1ml	< LOQ		mg/1ml	0.0307	
THCV-Total per 1ml	< LOQ		mg/1ml	0.0576	
Total Cannabinoids per 1ml	19.4		mg/1ml		



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Potency per 30ml **Method:** J AOAC 2015 V98-6 (mod)^b **Units mg/se** **Batch:** 2209356 **Analyze:** 11/1/22 4:29:00 AM

Analyte	Result	Limits	Units	LOQ	Notes
CBC per 30ml	18.2		mg/30ml	0.920	
CBC-A per 30ml	< LOQ		mg/30ml	0.920	
CBC-Total per 30ml	18.2		mg/30ml	1.73	
CBD per 30ml	516		mg/30ml	9.20	
CBD-A per 30ml	6.12		mg/30ml	0.920	
CBD-Total per 30ml	521		mg/30ml	10.0	
CBDV per 30ml	2.60		mg/30ml	0.920	
CBDV-A per 30ml	< LOQ		mg/30ml	0.920	
CBDV-Total per 30ml	2.60		mg/30ml	1.72	
CBE per 30ml	< LOQ		mg/30ml	0.920	
CBG per 30ml	13.9		mg/30ml	0.920	
CBG-A per 30ml	< LOQ		mg/30ml	0.920	
CBG-Total per 30ml	13.9		mg/30ml	1.72	
CBL per 30ml	< LOQ		mg/30ml	0.920	
CBL-A per 30ml	< LOQ		mg/30ml	0.920	
CBL-Total per 30ml	< LOQ		mg/30ml	1.73	
CBN per 30ml	6.38		mg/30ml	0.920	
CBT per 30ml	7.31		mg/30ml	0.920	
Δ8-THCV per 30ml	< LOQ		mg/30ml	0.920	
Δ10-THC per 30ml	< LOQ		mg/30ml	0.920	
Δ8-THC per 30ml	< LOQ		mg/30ml	0.920	
Δ9-THC per 30ml	11.2		mg/30ml	0.920	
exo-THC per 30ml	< LOQ		mg/30ml	0.920	
THC-A per 30ml	< LOQ		mg/30ml	0.920	
THC-Total per 30ml	11.2		mg/30ml	1.73	
THCV per 30ml	< LOQ		mg/30ml	0.920	
THCV-A per 30ml	< LOQ		mg/30ml	0.920	
THCV-Total per 30ml	< LOQ		mg/30ml	1.73	
Total Cannabinoids per 30ml	582		mg/30ml		

Microbiology

Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status	Notes
Aerobic Plate Count	< LOQ	10,000	cfu/g	10	2209273	10/31/22 AOAC 990.12 (Petrifilm) ^p	pass	
E.coli	< LOQ	100.00	cfu/g	10	2209271	10/31/22 AOAC 991.14 (Petrifilm) ^p	pass	
Total Coliforms	< LOQ	100.00	cfu/g	10	2209271	10/31/22 AOAC 991.14 (Petrifilm) ^p	pass	
Mold (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2209272	11/01/22 AOAC 2014.05 (RAPID) ^p	pass	
Yeast (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2209272	11/01/22 AOAC 2014.05 (RAPID) ^p	pass	
Listeria monocytogenes	Negative		/5g		2209277	10/30/22 AOAC 2019.11 ^p		I
Salmonella spp. by PCR	Negative		/5g		2209275	10/30/22 AOAC 2020.02 ^p		I
EHEC including STEC	Negative		/5g		2209276	10/30/22 AOAC RI 121806 ^p		I



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Solvents						Method: Residual Solvents by GC/MS ^b					Units µg/g		Batch 2209454		Analyze 11/03/22 02:23 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	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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Pesticides											
Method: AOAC 2007.01 & EN 15662 (mod)											
Units mg/kg Batch 2209324 Analyze 11/01/22 07:29 AM											
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		Acetamidrid	< 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		Dinotefuran	< 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		Etozazole	< 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	
Paclbutrazole	< 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 2209324		Analyze 11/01/22 07:29 AM		
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 2209478		Analyze 11/02/22 05:42 PM	
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total	Notes	
a-Bisabolol	< LOQ	0.019	0.00%		farnesene	< LOQ	0.019	0.00%		
Geraniol	< LOQ	0.019	0.00%		Geranyl acetate	< LOQ	0.019	0.00%		
nerol	< LOQ	0.019	0.00%		a-cedrene	< LOQ	0.019	0.00%		
β-Caryophyllene	< LOQ	0.019	0.00%		Humulene	< LOQ	0.019	0.00%		
(-)-Guaio	< LOQ	0.019	0.00%		(-)-caryophyllene oxide	< LOQ	0.019	0.00%		
(±)-trans-Nerolidol	< LOQ	0.019	0.00%		(±)-cis-Nerolidol	< LOQ	0.019	0.00%		
(+)-Pulegone	< LOQ	0.019	0.00%		(-)-a-Terpineol	< LOQ	0.019	0.00%		
(+)-Cedrol	< LOQ	0.019	0.00%		valencene	< LOQ	0.019	0.00%		
gamma-Terpinene	< LOQ	0.019	0.00%		(+)-fenchol	< LOQ	0.019	0.00%		
(-)-Isopulegol	< LOQ	0.019	0.00%		(-)-β-Pinene	< LOQ	0.019	0.00%		
(+)-Borneol	< LOQ	0.019	0.00%		(±)-Camphor	< LOQ	0.019	0.00%		
(±)-fenchone	< LOQ	0.019	0.00%		(R)-(+)-Limonene	< LOQ	0.019	0.00%		
a-phellandrene	< LOQ	0.019	0.00%		a-pinene	< LOQ	0.019	0.00%		
a-Terpinene	< LOQ	0.019	0.00%		Camphene	< LOQ	0.019	0.00%		
cis-β-Ocimene	< LOQ	0.006	0.00%		d-3-Carene	< LOQ	0.019	0.00%		
Eucalyptol	< LOQ	0.019	0.00%		Isoborneol	< LOQ	0.019	0.00%		
Linalool	< LOQ	0.019	0.00%		Menthol	< LOQ	0.019	0.00%		
p-Cymene	< LOQ	0.019	0.00%		Sabinene	< LOQ	0.019	0.00%		
Sabinene hydrate	< LOQ	0.019	0.00%		β-Myrcene	< LOQ	0.019	0.00%		
Terpinolene	< LOQ	0.019	0.00%		trans-β-Ocimene	< LOQ	0.013	0.00%		
Total Terpenes	< LOQ									

Metals										
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method		Status	Notes	
Arsenic	< LOQ	1.50	mg/kg	0.0949	2209388	11/01/22	AOAC 2013.06 (mod.) ^p	pass		
Cadmium	< LOQ	0.50	mg/kg	0.0949	2209388	11/01/22	AOAC 2013.06 (mod.) ^p	pass		
Lead	< LOQ	0.50	mg/kg	0.0949	2209388	11/01/22	AOAC 2013.06 (mod.) ^p	pass		
Mercury	< LOQ	1.50	mg/kg	0.0474	2209388	11/01/22	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	2209436	11/03/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass		
Aflatoxin B1 [‡]	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass		
Aflatoxin G1 [‡]	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass		
Aflatoxin G2 [‡]	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass		
Ochratoxin A [‡]	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22	AOAC 2007.01 & EN 15662 (mod) ^p	pass		



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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

‡ = ISO/IEC 17025:2017 accredited method.

¥ = TNI accredited analyte.

Units of Measure

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

/5g = Per 5 grams

% = Percentage of sample

% wt = µg/g divided by 10,000

Glossary of Qualifiers

I: Insufficient sample received to meet method requirements.

Approved Signatory

Derrick Tanner
General Manager



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