



Report Number: 22-013266/D006.R003

Report Date: 11/09/2022 **ORELAP#:** OR100028

Purchase Order:

Received: 10/28/22 13:10

This is an amended version of report# 22-013266/D006.R002. Reason: Updated reporting units.

Customer: R&R

Product identity: R&R 1000mg Full Spectrum Cream - Lot 3103

Client/Metrc ID:

Laboratory ID: 22-013266-0002

Summary

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P	ni	te	n	CI	•	•

					
Analyte per 2.7g	Result	Limits	Units	Status	CBD-Total per Serving Size 34.8 mg/2.7g
CBC per 2.7g	1.19		mg/2.7g		
CBD per 2.7g	34.0		mg/2.7g		4.00 /0.7:
CBD-A per 2.7g	0.886		mg/2.7g		THC-Total per Serving Size 1.36 mg/2.7g
CBDV per 2.7g	0.134		mg/2.7g		
CBG per 2.7g	0.543		mg/2.7g		CBD-Total per Serving Size 1040 mg/81g
CBN per 2.7g	0.113		mg/2.7g		
CBT per 2.7g	0.637		mg/2.7g		<u> </u>
Δ9-THC per 2.7g	1.36		mg/2.7g		THC-Total per Serving Size 40.7 mg/81g
Analyte per 81g	Result	Limits	Units	Status	(Reported in milligrams per serving)
CBC per 81g	35.6		mg/81g		
CBD per 81g	1020		mg/81g		
CBD-A per 81g	26.6		mg/81g		
CBDV per 81g	4.03		mg/81g		
CBG per 81g	16.3		mg/81g		
CBN per 81g	3.39		mg/81g		
CBT per 81g	19.1		mg/81g		
Δ9-THC per 81g	40.7		mg/81g		

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.





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Purchase Order:

Received: 10/28/22 13:10



Customer: R&R

United States of America (USA)

Product identity: R&R 1000mg Full Spectrum Cream - Lot 3103

Client/Metrc ID:

Sample Date:

Serving Size #2:

Laboratory ID: 22-013266-0002

81 g

Evidence of Cooling:NoTemp:18.8 °CRelinquished by:uspsServing Size #1:2.7 g

Sample Results

Potency per 2.7g	Method: J AOAC 2015 V	98-6 (mod) ^þ	Units mg/se Bat	tch: 2209356	Analyze: 11/1/22 4:37:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 2.7g	1.19		mg/2.7g	0.0857	
CBC-A per 2.7g	< LOQ		mg/2.7g	0.0803	
CBC-Total per 2.7g	1.19		mg/2.7g	0.161	
CBD per 2.7g	34.0		mg/2.7g	0.857	
CBD-A per 2.7g	0.886		mg/2.7g	0.0857	
CBD-Total per 2.7g	34.8		mg/2.7g	0.932	
CBDV per 2.7g	0.134		mg/2.7g	0.0857	
CBDV-A per 2.7g	< LOQ		mg/2.7g	0.0803	
CBDV-Total per 2.7g	< LOQ		mg/2.7g	0.160	
CBE per 2.7g	< LOQ		mg/2.7g	0.0803	
CBG per 2.7g	0.543		mg/2.7g	0.0857	
CBG-A per 2.7g	< LOQ		mg/2.7g	0.0803	
CBG-Total per 2.7g	0.543		mg/2.7g	0.160	
CBL per 2.7g	< LOQ		mg/2.7g	0.0803	
CBL-A per 2.7g	< LOQ		mg/2.7g	0.0803	
CBL-Total per 2.7g	< LOQ		mg/2.7g	0.151	
CBN per 2.7g	0.113		mg/2.7g	0.0857	
CBT per 2.7g	0.637		mg/2.7g	0.0857	
$\Delta 8$ -THCV per 2.7g	< LOQ		mg/2.7g	0.0803	
$\Delta 10$ -THC per 2.7g	< LOQ		mg/2.7g	0.0803	
$\Delta 8$ -THC per 2.7g	< LOQ		mg/2.7g	0.0803	
$\Delta 9$ -THC per 2.7g	1.36		mg/2.7g	0.0857	
exo-THC per 2.7g	< LOQ		mg/2.7g	0.0803	
THC-A per 2.7g	< LOQ		mg/2.7g	0.0803	
THC-Total per 2.7g	1.36		mg/2.7g	0.161	
THCV per 2.7g	< LOQ		mg/2.7g	0.0803	
THCV-A per 2.7g	< LOQ		mg/2.7g	0.0803	
THCV-Total per 2.7g	< LOQ		mg/2.7g	0.151	
Total Cannabinoids per 2.7	7g 38.9		mg/2.7g		

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Report Number: Report Date: 11/09/2022

22-013266/D006.R003

ORELAP#:

OR100028

Purchase Order:

Potency per 81g	Method: J AOAC 2015 \	/98-6 (mod) ^þ	Units mg/se Bat	ch: 2209356	Analyze: 11/1/22 4:37:00 AM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 81g	35.6		mg/81g	2.57	
CBC-A per 81g	< LOQ		mg/81g	2.41	
CBC-Total per 81g	35.6		mg/81g	4.83	
CBD per 81g	1020		mg/81g	25.7	
CBD-A per 81g	26.6		mg/81g	2.57	
CBD-Total per 81g	1040		mg/81g	28.0	
CBDV per 81g	4.03		mg/81g	2.57	
CBDV-A per 81g	< LOQ		mg/81g	2.41	
CBDV-Total per 81g	< LOQ		mg/81g	4.80	
CBE per 81g	< LOQ		mg/81g	2.41	
CBG per 81g	16.3		mg/81g	2.57	
CBG-A per 81g	< LOQ		mg/81g	2.41	
CBG-Total per 81g	16.3		mg/81g	4.80	
CBL per 81g	< LOQ		mg/81g	2.41	
CBL-A per 81g	< LOQ		mg/81g	2.41	
CBL-Total per 81g	< LOQ		mg/81g	4.53	
CBN per 81g	3.39		mg/81g	2.57	
CBT per 81g	19.1		mg/81g	2.57	
∆8-THCV per 81g	< LOQ		mg/81g	2.41	
$\Delta 10$ -THC per 81g	< LOQ		mg/81g	2.41	
∆8-THC per 81g	< LOQ		mg/81g	2.41	
Δ9-THC per 81g	40.7		mg/81g	2.57	
exo-THC per 81g	< LOQ		mg/81g	2.41	
THC-A per 81g	< LOQ		mg/81g	2.41	
THC-Total per 81g	40.7		mg/81g	4.83	
THCV per 81g	< LOQ		mg/81g	2.41	
THCV-A per 81g	< LOQ		mg/81g	2.41	
THCV-Total per 81g	< LOQ		mg/81g	4.53	
Total Cannabinoids per 81	g 1170		mg/81g		



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Purchase Order:

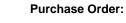
Solvents	Method:	Residua	I Solve	ents by G	GC/MS ^þ	Units µg/g	Batch 22	09454	Analyz	:e 11/0	03/22 02:23 PM
Analyte	Result	Limits	LOQ	Status N	Notes	Analyte		Result	Limits	LOQ	Status Notes
2-Methylbutane (Isopentane)	< LOQ	1000	200	pass		2-Methylpentane	е	< LOQ	60.0	30.0	pass
2-Propanol (IPA)¥	< LOQ	1000	200	pass		2,2-Dimethylbut	ane	< LOQ	6.00	30.0	pass
2,2-Dimethylpropane (neo-pentane)	< LOQ	1000	200	pass		2,3-Dimethylbut	ane	< 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							



Report Date: 11/09/2022 ORELAP#: OR100028

Report Number:

22-013266/D006.R003



Pesticides	Method: AO	AC 2007.01 & EN 15662	(mod) Units mg/kg Batch	2209415	Analyze 11/02/22 03:26 PM
Analyte	Result	Limits LOQ Status N	otes 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	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
ndosulfan sulfate	< LOQ	2.5 0.050 pass	Ethoprophos	< LOQ	0.010 0.010 pass
tofenprox	< LOQ	0.050 0.010 pass	Etoxazole	< LOQ	0.020 0.010 pass
tridiazole	< LOQ	0.15 0.050 pass	Fenhexamid	< LOQ	0.13 0.100 pass
enoxycarb	< LOQ	0.010 0.010 pass	Fenpyroximate	< LOQ	0.020 0.020 pass
ensulfothion	< LOQ	0.010 0.010 pass	Fenthion	< LOQ	0.010 0.010 pass
envalerate	< LOQ	0.200	Fipronil	< LOQ	0.010 0.010 pass
lonicamid	< LOQ	0.025 0.025 pass	Fludioxonil	< LOQ	0.010 0.010 pass
luopyram	< LOQ	0.010 0.010 pass	Hexythiazox	< LOQ	0.010 0.010 pass
mazalil	< LOQ	0.010 0.010 pass	Imidacloprid	< LOQ	0.010 0.010 pass
orodione	< LOQ	0.50 0.500 pass	Kinoprene	< LOQ	1.3 0.200 pass
(resoxim-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
/lethomyl	< LOQ	0.025 0.025 pass	Methoprene	< LOQ	2.0 1.00 pass
/levinphos	< LOQ	0.025 0.025 pass	MGK-264	< LOQ	0.050 0.050 pass
/lyclobutanil	< LOQ	0.010 0.010 pass	Naled	< LOQ	0.10 0.100 pass
lovaluron	< LOQ	0.025 0.025 pass	Oxamyl	< LOQ	1.5 0.500 pass
Paclobutrazole	< LOQ	0.010 0.010 pass	Parathion-Methyl	< LOQ	0.050 0.030 pass
ermethrin	< LOQ	0.50 0.040 pass	Phenothrin	< LOQ	0.050 0.025 pass
hosmet	< LOQ	0.020 0.010 pass	Piperonyl butoxide	< LOQ	1.3 0.200 pass
ririmicarb	< LOQ	0.010 0.010 pass	Prallethrin	< LOQ	0.050 0.050 pass
ropiconazole	< LOQ	0.10 0.010 pass	Propoxur	< LOQ	0.010 0.010 pass
yraclostrobin	< 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





22-013266/D006.R003 **Report Number:**

Report Date: 11/09/2022 ORELAP#: OR100028

Purchase Order:

Pesticides	Method: AO	AC 2007.01 & EN 15662 (mod)	Units mg/kg Batch	2209415	Analyze 11/02/22 03:26 PM		
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	Analyz	ze 11/02/22 06:07 PM
Analyte	Result	LOQ	% of Total	Notes	Analyte	Result	LOQ	% of Total Notes
Geraniol	< LOQ	0.019	0.00%		farnesene	< LOQ	0.019	0.00%
(-)-Guaiol	< LOQ	0.019	0.00%		(+)-Cedrol	< LOQ	0.019	0.00%
Sabinene hydrate	< LOQ	0.019	0.00%		valencene	< LOQ	0.019	0.00%
Geranyl acetate	< LOQ	0.019	0.00%		(±)-cis-Nerolido	ol < LOQ	0.019	0.00%
a-Bisabolol	< LOQ	0.019	0.00%		(-)-a-Terpineol	< LOQ	0.019	0.00%
(-)-caryophyllene oxide	< LOQ	0.019	0.00%		(-)-Isopulegol	< LOQ	0.019	0.00%
(-)-ß-Pinene	< LOQ	0.019	0.00%		(+)-Borneol	< LOQ	0.019	0.00%
(+)-fenchol	< LOQ	0.019	0.00%		(+)-Pulegone	< LOQ	0.019	0.00%
(±)-Camphor	< LOQ	0.019	0.00%		(±)-fenchone	< LOQ	0.019	0.00%
(±)-trans-Nerolidol	< LOQ	0.019	0.00%		(R)-(+)-Limone	ene < LOQ	0.019	0.00%
a-cedrene	< 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-ß-Ocimene	< LOQ	0.006	0.00%
d-3-Carene	< LOQ	0.019	0.00%		Eucalyptol	< LOQ	0.019	0.00%
gamma-Terpinene	< LOQ	0.019	0.00%		Humulene	< LOQ	0.019	0.00%
Isoborneol	< LOQ	0.019	0.00%		Linalool	< LOQ	0.019	0.00%
Menthol	< LOQ	0.019	0.00%		nerol	< LOQ	0.019	0.00%
p-Cymene	< LOQ	0.019	0.00%		Sabinene	< LOQ	0.019	0.00%
ß-Caryophyllene	< LOQ	0.019	0.00%		ß-Myrcene	< LOQ	0.019	0.00%
Terpinolene	< LOQ	0.019	0.00%		trans-ß-Ocimer	ne < LOQ	0.012	0.00%
Total Terpenes	< LOQ							

Metals							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
Arsenic	< LOQ	1.50	mg/kg	0.0803	2209388	11/01/22 AOAC 2013.06 (mod.) ^b	pass
Cadmium	< LOQ	0.50	mg/kg	0.0803	2209388	11/01/22 AOAC 2013.06 (mod.) ^b	pass
Lead	< LOQ	0.50	mg/kg	0.0803	2209388	11/01/22 AOAC 2013.06 (mod.) ^b	pass
Mercury	< LOQ	1.50	mg/kg	0.0402	2209388	11/01/22 AOAC 2013.06 (mod.) ^b	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) ^b	pass
Aflatoxin B1¥	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22 AOAC 2007.01 & EN 15662 (mod) ^b	pass
Aflatoxin G1¥	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22 AOAC 2007.01 & EN 15662 (mod) ^b	pass
Aflatoxin G2¥	< LOQ	5.00	µg/kg	5.00	2209436	11/03/22 AOAC 2007.01 & EN 15662 (mod) ^b	pass
Ochratoxin A [¥]	< LOQ	5.00	μg/kg	5.00	2209436	11/03/22 AOAC 2007.01 & EN 15662 (mod) ^b	pass





Report Number: 22-013266/D006.R003

Report Date: 11/09/2022 **ORELAP#:** OR100028

Purchase Order:

Received: 10/28/22 13:10

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

- b = ISO/IEC 17025:2017 accredited method.
- * = TNI accredited analyte.

Units of Measure

g = g

μg/g = Microgram per gram

μg/kg = Micrograms per kilogram = parts per billion (ppb)

mg/kg = Milligram per kilogram = parts per million (ppm)

mg/2.7g = Milligram per 2.7g

mg/81g = Milligram per 81g

% = Percentage of sample

% wt = μ g/g divided by 10,000

Approved Signatory

Derrick Tanner General Manager





Report Number: 22-013266/D006.R003

Report Date: 11/09/2022 ORELAP#: OR100028

Purchase Order:







Report Number: 22-015627/D013.R000

Report Date: 01/09/2023 ORELAP#: OR100028

Purchase Order:

Received: 12/21/22 12:49

R&R **Customer:**

Product identity: R&R 1000mg Full Spectrum Cream - Lot 3103

Client/Metrc ID:

Laboratory ID: 22-015627-0002

Summary								
Microbiology:	_							
Less than LOQ for all analytes.								





R&R **Customer:**

United States of America (USA)

Product identity: R&R 1000mg Full Spectrum Cream - Lot 3103

Client/Metrc ID:

Sample Date:

Laboratory ID: 22-015627-0002

Evidence of Cooling: No

Temp: 15.3 °C Relinquished by: **USPS**

Report Number: 22-015627/D013.R000

Report Date: 01/09/2023 ORELAP#: OR100028

Purchase Order:

Received: 12/21/22 12:49



Sample Results

Microbiology							
Analyte	Result	Limits	Units	LOQ	Batch	Analyzed Method	Status Notes
Aerobic Plate Count	< LOQ	10,000	cfu/g	10	2210921	12/30/22 AOAC 990.12 (Petrifilm)	pass
E.coli	< LOQ	100.00	cfu/g	10	2210918	12/30/22 AOAC 991.14 (Petrifilm)	pass
Total Coliforms	< LOQ	100.00	cfu/g	10	2210918	12/30/22 AOAC 991.14 (Petrifilm)	pass
Mold (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2210919	12/30/22 AOAC 2014.05 (RAPID)	pass
Yeast (RAPID Petrifilm)	< LOQ	1,000.	cfu/g	10	2210919	12/30/22 AOAC 2014.05 (RAPID)	pass
Salmonella spp. by PCR	Negative		/25g		2210923	12/29/22 AOAC 2020.02	
EHEC including STEC	Negative		/25g		2210926	12/29/22 AOAC RI 121806	





Report Number: 22-015627/D013.R000

Report Date: 01/09/2023 **ORELAP#:** OR100028

Purchase Order:

Received: 12/21/22 12:49

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

Units of Measure

/25g = Per 25g

cfu/g = Colony forming units per gram

% wt = μ g/g divided by 10,000

Approved Signatory

Derrick Tanner General Manager



CERTIFICATE OF ANALYSIS

DATE ISSUED 08/09/2023

SAMPLE NAME: R&R Full Spectrum 2500mg CBD Cream

Infused, Colorado Infused

CULTIVATOR / MANUFACTURER DISTRIBUTOR / TESTED FOR

Business Name: Business Name: R&R CBD License Number: License Number:

Address: Address:

SAMPLE DETAIL

Batch Number: 3501 Date Collected: 08/04/2023 Sample ID: 230804R033 Date Received: 08/04/2023

Date of Sampling: 08/04/2023 Batch Size:

Time of Sampling: 3:59 p.m. Sample Size: 1.0 units

Sampler Name: Unit Mass: 69 grams per Unit Serving Size: 2.3 grams per Serving Sampler Company:







Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC/CBD is calculated using the following formulas to take into Total THC: 94.806 mg/unit account the loss of a carboxyl group during the decarboxylation step:

Total THC = Δ^9 -THC + (THCa (0.877)) Total CBD: 2770.557 mg/unit

Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ^9 -THC + THCa + CBD + CBDa + CBG + CBGa + Sum of Cannabinoids: 3040.830 mg/unit HCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8 -THC + CBL + CBN Total Cannabinoids = (Δ⁹-THC+0.877*THCa) + (CBD+0.877*CBDa) +

(CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) +

Total Cannabinoids: 3035.517 mg/unit (CBDV+0.877*CBDVa) + Δ8-THC + CBL + CBN

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.012%

α-Bisabolol 0.071 mg/g

Guaiol 0.037 mg/g

β-Caryophyllene 0.012 mg/g

SAFETY ANALYSIS - SUMMARY

Pesticides: PASS Mycotoxins: PASS Residual Solvents: PASS

Heavy Metals: PASS Microbiology (PCR): PASS Microbiology (Plating): PASS

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written

Sample Certification: 6 CCR 1010-21 Colorado Wholesale Food, Industrial Hemp, and Shellfish Regulations; where applicable

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

Approved by: Josh Wurzer Title: Chief Compliance Officer Date: 08/09/2023



CERTIFICATE OF ANALYSIS



R&R FULL SPECTRUM 2500MG CBD CREAM | DATE ISSUED 08/09/2023



Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

TOTAL THC: 94.806 mg/unit Total THC (Δ⁹-THC+0.877*THCa)

TOTAL CBD: 2770.557 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 3035.517 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8 -THC + CBL + CBN

TOTAL CBG: 36.570 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 86.733 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 21.321 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 08/07/2023

	COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Ī	CBD	0.004 / 0.011	±1.4779	39.623	3.9623
Ī	Δ ⁹ -THC	0.002/0.014	±0.0754	1.374	0.1374
	СВС	0.003 / 0.010	±0.0398	1.235	0.1235
	CBDa	0.001 / 0.026	±0.0172	0.604	0.0604
Ī	CBG	0.002 / 0.006	±0.0257	0.530	0.0530
	CBDV	0.002/0.012	±0.0126	0.309	0.0309
	CBN	0.001 / 0.007	±0.0087	0.303	0.0303
Ī	CBL	0.003 / 0.010	±0.0025	0.067	0.0067
it	CBCa	0.001 / 0.015	±0.0010	0.025	0.0025
Ιι -	∆ ⁸ -THC	0.01 / 0.02	N/A	ND	ND
Ī	THCa	0.001 / 0.005	N/A	ND	ND
	THCV	0.002/0.012	N/A	ND	ND
	THCVa	0.002/0.019	N/A	ND	ND
	CBDVa	0.001/0.018	N/A	ND	ND
	CBGa	0.002 / 0.007	N/A	ND	ND
	Total THC		±0.0754	1.374	0.1374
	SUM OF CANNA	ABINOIDS		44.070 mg/g	4.407%

Unit Mass: 69 grams per Unit / Serving Size: 2.3 grams per Serving

Δ^9 -THC per Unit	94.806 mg/unit
Δ^9 -THC per Serving	3.160 mg/serving
Total THC per Unit	94.806 mg/unit
Total THC per Serving	3.160 mg/serving
CBD per Unit	2733.987 mg/unit
CBD per Serving	91.133 mg/serving
Total CBD per Unit	2770.557 mg/unit
Total CBD per Serving	92.352 mg/serving
Sum of Cannabinoids per Unit	3040.830 mg/unit
Sum of Cannabinoids per Serving	101.361 mg/serving
Total Cannabinoids per Unit	3035.517 mg/unit
Total Cannabinoids per Serving	101.184 mg/serving



CERTIFICATE OF ANALYSIS

R&R FULL SPECTRUM 2500MG CBD CREAM | DATE ISSUED 08/09/2023





Terpenoid Analysis

Terpene analysis utilizing gas chromatographyflame ionization detection (GC-FID).

Method: QSP 1192 - Analysis of Terpenoids by GC-FID



α -Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.



Guaiol

A sesquiterpene alcohol with a fragrance that can be described as floral, piney, herbal and woody. Found in guaiacum, cypress pine, ginseng, melaleuca, goatweed, incense grass...etc.



β -Caryophyllene

A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

TERPENOID TEST RESULTS - 08/06/2023

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
α-Bisabolol	0.008 / 0.026	±0.0029	0.071	0.0071
Guaiol	0.009/0.030	±0.0014	0.037	0.0037
β-Caryophyllene	0.004 / 0.012	±0.0003	0.012	0.0012
α-Pinene	0.005 / 0.017	N/A	ND	ND
Camphene	0.005 / 0.015	N/A	ND	ND
Sabinene	0.004 / 0.014	N/A	ND	ND
β-Pinene	0.004 / 0.014	N/A	ND	ND
Myrcene	0.008 / 0.025	N/A	ND	ND
α -Phellandrene	0.006 / 0.020	N/A	ND	ND
Δ^3 -Carene	0.005 / 0.018	N/A	ND	ND
α-Terpinene	0.005 / 0.017	N/A	ND	ND
p-Cymene	0.005 / 0.016	N/A	ND	ND
Limonene	0.005 / 0.016	N/A	ND	ND
Eucalyptol	0.006 / 0.018	N/A	ND	ND
β-Ocimene	0.006 / 0.020	N/A	ND	ND
γ-Terpinene	0.006 / 0.018	N/A	ND	ND
Sabinene Hydrate	0.006 / 0.022	N/A	ND	ND
Fenchone	0.009 / 0.028	N/A	ND	ND
Terpinolene	0.008 / 0.026	N/A	ND	ND
Linalool	0.009/0.032	N/A	ND	ND
Fenchol	0.010 / 0.034	N/A	ND	ND
Isopulegol	0.005 / 0.016	N/A	ND	ND
Camphor	0.006/0.019	N/A	ND	ND
Isoborneol	0.004 / 0.012	N/A	ND	ND
Borneol	0.005/0.016	N/A	ND	ND
Menthol	0.008/0.025	N/A	ND	ND
Terpineol	0.009/0.031	N/A	ND	ND
Nerol	0.003/0.011	N/A	ND	ND
Citronellol	0.003/0.010	N/A	ND	ND
Pulegone	0.003 / 0.011	N/A	ND	ND
Geraniol	0.002 / 0.007	N/A	ND	ND
Geranyl Acetate	0.004 / 0.014	N/A	ND	ND
α-Cedrene	0.005 / 0.016	N/A	ND	ND
trans-β-Farnesene	0.008 / 0.025	N/A	ND	ND
α-Humulene	0.009/0.029	N/A	ND	ND
Valencene	0.009/0.030	N/A	ND	ND
Nerolidol	0.006 / 0.019	N/A	ND	ND
Caryophyllene Oxide	0.010 / 0.033	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
TOTAL TERPENOIDS			0.120 mg/g	0.012%



CERTIFICATE OF ANALYSIS

R&R FULL SPECTRUM 2500MG CBD CREAM | DATE ISSUED 08/09/2023





Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

PESTICIDE TEST RESULTS - 08/07/2023 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)	RESULT
Abamectin	0.032 / 0.097	0.25	N/A	ND	PASS
Acephate	0.006 / 0.018	0.05	N/A	ND	PASS
Acequinocyl	0.009 / 0.027	≥LOQ	N/A	ND	PASS
Acetamiprid	0.016 / 0.049	0.05	N/A	ND	PASS
Aldicarb	0.030 / 0.090	0.5	N/A	ND	PASS
Allethrin	0.030 / 0.092	0.1	N/A	ND	PASS
Atrazine	0.006/0.019	≥LOQ	N/A	ND	PASS
Azadirachtin	0.082 / 0.248	0.5	N/A	ND	PASS
Azoxystrobin	0.003 / 0.009	0.01	N/A	ND	PASS
Benzovindiflupyr	0.003 / 0.009	0.01	N/A	ND	PASS
Bifenazate	0.003 / 0.009	0.01	N/A	ND	PASS
Bifenthrin	0.021 / 0.064	≥LOQ	N/A	ND	PASS
Boscalid	0.003 / 0.009	0.01	N/A	ND	PASS
Buprofezin	0.006/0.019	≥LOQ	N/A	ND	PASS
Carbaryl	0.007 / 0.020	0.025	N/A	ND	PASS
Carbofuran	0.003 / 0.008	0.01	N/A	ND	PASS
Chlorantraniliprole	0.006 / 0.018	≥LOQ	N/A	ND	PASS
Chlorfenapyr*	0.005 / 0.015	1.5	N/A	ND	PASS
Chlorpyrifos	0.013/0.039	0.5	N/A	ND	PASS
Clofentezine	0.003 / 0.009	0.01	N/A	ND	PASS
Clothianidin	0.008 / 0.025	0.025	N/A	ND	PASS
Coumaphos	0.003 / 0.010	0.01	N/A	ND	PASS
Cyantraniliprole	0.003/0.010	0.01	N/A	ND	PASS
Cyfluthrin	0.052 / 0.159	≥LOQ	N/A	ND	PASS
Cypermethrin	0.051/0.153	≥LOQ	N/A	ND	PASS
Cyprodinil	0.003/0.008	0.01	N/A	ND	PASS
Daminozide	0.026 / 0.077	≥LOQ	N/A	ND	PASS
Deltamethrin	0.059 / 0.180	≥LOQ	N/A	ND	PASS
Diazinon	0.006 / 0.017	≥LOQ	N/A	ND	PASS
Dichlorvos (DDVP)	0.012 / 0.038	0.05	N/A	ND	PASS
Dimethoate	0.003 / 0.009	0.01	N/A	ND	PASS
Dimethomorph	0.016 / 0.050	≥LOQ	N/A	ND	PASS
Dinotefuran	0.010 / 0.030	0.05	N/A	ND	PASS
Diuron	0.013 / 0.040	≥LOQ	N/A	ND	PASS
Dodemorph	0.012 / 0.035	≥LOQ	N/A	ND	PASS
Endosulfan sulfate	0.016 / 0.048	2.5	N/A	ND	PASS
Endosulfan-α*	0.004 / 0.014	2.5	N/A	ND	PASS
Endosulfan-β*	0.006 / 0.019	2.5	N/A	ND	PASS
Ethoprophos	0.003 / 0.009	0.01	N/A	ND	PASS
Etofenprox	0.014 / 0.042	≥LOQ	N/A	ND	PASS
Etoxazole	0.007 / 0.020	≥LOQ	N/A	ND	PASS

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CERTIFICATE OF ANALYSIS



R&R FULL SPECTRUM 2500MG CBD CREAM | DATE ISSUED 08/09/2023



Pesticide Analysis Continued

PESTICIDE TEST RESULTS - 08/07/2023 continued PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)	RESULT
Etridiazole*	0.002 / 0.005	0.15	N/A	ND	PASS
Fenhexamid	0.003 / 0.008	≥LOQ	N/A	ND	PASS
Fenoxycarb	0.003 / 0.010	0.01	N/A	ND	PASS
Fenpyroximate	0.007 / 0.020	≥LOQ	N/A	ND	PASS
Fensulfothion	0.003/0.010	0.01	N/A	ND	PASS
Fenthion	0.003 / 0.010	0.01	N/A	ND	PASS
Fenvalerate	0.033 / 0.099	≥LOQ	N/A	ND	PASS
Fipronil	0.003/0.010	0.01	N/A	ND	PASS
Flonicamid	0.007/0.022	0.025	N/A	ND	PASS
Fludioxonil	0.003 / 0.010	0.01	N/A	ND	PASS
Fluopyram	0.003 / 0.009	0.01	N/A	ND	PASS
Hexythiazox	0.003 / 0.010	≥LOQ	N/A	ND	PASS
Imazalil	0.003 / 0.009	0.01	N/A	ND	PASS
Imidacloprid	0.003 / 0.010	0.01	N/A	ND	PASS
Iprodione	0.077 / 0.233	0.5	N/A	<loq< td=""><td>PASS</td></loq<>	PASS
Kinoprene	0.077 / 0.233	1.25	N/A	ND	PASS
Kresoxim-methyl	0.006/0.019	0.15	N/A	ND	PASS
λ-Cyhalothrin	0.068 / 0.206	≥LOQ	N/A	ND	PASS
Malathion	0.003 / 0.009	0.01	N/A	ND	PASS
Metalaxyl	0.003 / 0.010	0.01	N/A	ND	PASS
Methiocarb	0.003 / 0.008	0.01	N/A	ND	PASS
Methomyl	0.008 / 0.025	0.025	N/A	ND	PASS
Methoprene	0.172 / 0.521	≥LOQ	N/A	ND	PASS
Mevinphos	0.008/0.024	0.025	N/A	ND	PASS
MGK-264	0.015/0.047	≥LOQ	N/A	ND	PASS
Myclobutanil	0.003 / 0.009	0.01	N/A	ND	PASS
Naled	0.021 / 0.064	≥LOQ	N/A	ND	PASS
Novaluron	0.002 / 0.005	0.025	N/A	ND	PASS
Oxamyl	0.017 / 0.051	1.5	N/A	ND	PASS
Paclobutrazol	0.003 / 0.010	0.01	N/A	ND	PASS
Parathion-methyl	0.016 / 0.050	≥LOQ	N/A	ND	PASS
Pentachloronitrobenzene*	0.004 / 0.012	≥LOQ	N/A	ND	PASS
Permethrin	0.056 / 0.168	≥LOQ	N/A	ND	PASS
Phenothrin	0.016 / 0.047	≥LOQ	N/A	ND	PASS
Phosmet	0.007 / 0.020	≥LOQ	N/A	ND	PASS
Piperonyl Butoxide	0.010/0.029	1.25	N/A	ND	PASS
Pirimicarb	0.003 / 0.009	0.01	N/A	ND	PASS
Prallethrin	0.015 / 0.046	≥ LOQ	N/A	ND	PASS
Propiconazole	0.027 / 0.080	≥ LOQ	N/A	ND	PASS
Propoxur	0.003 / 0.008	0.01	N/A	ND	PASS
Pyraclostrobin	0.003 / 0.010	0.01	N/A	ND	PASS

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CERTIFICATE OF ANALYSIS



R&R FULL SPECTRUM 2500MG CBD CREAM | DATE ISSUED 08/09/2023



Pesticide Analysis Continued

PESTICIDE TEST RESULTS - 08/07/2023 continued PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Pyrethrins	0.016/0.049	≥LOQ	N/A	ND	PASS
Pyridaben	0.005 / 0.017	0.02	N/A	ND	PASS
Pyriproxyfen	0.003 / 0.009	≥LOQ	N/A	ND	PASS
Resmethrin	0.013/0.039	0.05	N/A	ND	PASS
Spinetoram	0.003/0.010	0.01	N/A	ND	PASS
Spinosad	0.003/0.010	0.01	N/A	ND	PASS
Spirodiclofen	0.031 / 0.093	≥LOQ	N/A	ND	PASS
Spiromesifen	0.016 / 0.050	≥LOQ	N/A	ND	PASS
Spirotetramat	0.003/0.010	0.01	N/A	ND	PASS
Spiroxamine	0.020 / 0.062	≥LOQ	N/A	ND	PASS
Tebuconazole	0.003/0.010	0.01	N/A	ND	PASS
Tebufenozide	0.003 / 0.008	0.01	N/A	ND	PASS
Teflubenzuron	0.007/0.022	0.025	N/A	ND	PASS
Tetrachlorvinphos	0.003 / 0.008	0.01	N/A	ND	PASS
Tetramethrin	0.021 / 0.063	≥LOQ	N/A	ND	PASS
Thiabendazole	0.006 / 0.020	≥LOQ	N/A	ND	PASS
Thiacloprid	0.003/0.009	0.01	N/A	ND	PASS
Thiamethoxam	0.003/0.010	0.01	N/A	ND	PASS
Thiophanate-methyl	0.013/0.040	≥LOQ	N/A	ND	PASS
Trifloxystrobin	0.003 / 0.009	0.01	N/A	ND	PASS



Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

MYCOTOXIN TEST RESULTS - 08/07/2023 PASS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (μg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	1.6 / <mark>5.0</mark>	5	N/A	ND	PASS
Aflatoxin B2	1.4/4.1		N/A	ND	
Aflatoxin G1	1.6 / 4.9		N/A	ND	
Aflatoxin G2	1.6 / 5.0		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	1.6 / 5.0	5	N/A	ND	PASS



CERTIFICATE OF ANALYSIS



R&R FULL SPECTRUM 2500MG CBD CREAM | DATE ISSUED 08/09/2023



Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

Total Butanes = n-Butane + 2-Methylpropane (Isobutane) Total Heptanes = 2,2-Dimethylpentane (Neoheptane) + 2,3-Dimethylpentane + 2,4-Dimethylpentane + 3,3-Dimethylpentane + 2,2,3-Trimethylbutane (Triptane) + 2-Methylhexane (Isoheptane) + 3-Methylhexane + 3-Ethylpentane + n-Heptane Total Xylenes = 1,2-Dimethylbenzene (o-Xylene) + 1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene)

RESIDUAL SOLVENTS TEST RESULTS - 08/07/2023 PASS

COMPOUND	LOD/LOQ (μg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Propane	0.234 / 0.781	1000	N/A	ND	PASS
2-Methylpropane (Isobutane)	0.052 / 0.173		N/A	ND	
n-Butane	0.019 / 0.063		N/A	ND	
Total Butanes		1000		ND	PASS
n-Pentane	0.310 / 1.033	1000	N/A	ND	PASS
n-Hexane	0.110 / 0.366	60	N/A	ND	PASS
2,2-Dimethylpentane (Neoheptane)	0.493 / 1.642		N/A	ND	
2,3-Dimethylpentane	1.009 / 3.365		N/A	ND	
2,4-Dimethylpentane	0.737 / 2.458		N/A	ND	
3,3-Dimethylpentane	0.198 / 0.660		N/A	ND	
2,2,3-Trimethylbutane (Triptane)	0.521 / 1.738		N/A	ND	
2-Methylhexane (Isoheptane)	0.610/2.034		N/A	ND	
3-Methylhexane	0.235 / 0.785		N/A	ND	
3-Ethylpentane	0.304 / 1.012		N/A	ND	
n-Heptane	13.12 / 43.72		N/A	ND	
Total Heptanes		1000		ND	PASS
Benzene	0.089 / 0.295	2	N/A	ND	PASS
Toluene	0.115 / 0.382	180	N/A	ND	PASS
1,3-Dimethylbenzene / 1,4-Dimethylbenzene	0.451 / 1.502		N/A	ND	
1,2-Dimethylbenzene (o-Xylene)	0.387 / 1.289		N/A	ND	
Total Xylenes		430		ND	PASS
Methanol	53.92 / 163.4	600	N/A	ND	PASS
Ethanol	8.984/27.23	1000	±0.462	29.64	PASS
2-Propanol (Isopropyl Alcohol)	8.421 / 25.52	1000	N/A	ND	PASS
Acetone	10.59/32.08	1000	N/A	ND	PASS
Ethyl Acetate	1.123 / 3.745	1000	N/A	ND	PASS



Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 08/06/2023 PASS

COMPOUND	LO <mark>D/LOQ</mark> (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)	RESULT
Arsenic	0.02 / 0.1	1.5	N/A	ND	PASS
Cadmium	0.02 / 0.05	0.5	N/A	ND	PASS
Lead	0.04 / 0.1	0.5	N/A	ND	PASS
Mercury	0.002 / 0.01	1.5	N/A	ND	PASS







R&R FULL SPECTRUM 2500MG CBD CREAM | DATE ISSUED 08/09/2023



Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by $3M^{\text{TM}}$ Petrifilm and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with $3M^{TM}$ PetrifilmTM

MICROBIOLOGY TEST RESULTS (PCR) - 08/08/2023 PASS

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing Escherichia coli	Not Detected in 25g	ND	PASS
Salmonella spp.	Not Detected in 25g	ND	PASS

MICROBIOLOGY TEST RESULTS (PLATING) - 08/08/2023 PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Total Aerobic Bacteria	10000	ND	PASS
Total Yeast and Mold	1000	ND	PASS
Coliforms	100	ND	PASS

NOTES

CoA Amended Update: Unit Mass



CERTIFICATE OF ANALYSIS

DATE ISSUED 08/01/2023

SAMPLE NAME: R&R Full Spectrum 5000mg CBD Cream

Infused, Hemp

CULTIVATOR / MANUFACTURER

Business Name: License Number:

Address:

SAMPLE DETAIL

Batch Number: 3900 Sample ID: 230720R049 **DISTRIBUTOR / TESTED FOR**

Business Name: R&R CBD

License Number:

Address:

Date Collected: 07/20/2023 Date Received: 07/20/2023

Batch Size:

Sample Size: 1.0 units

Unit Mass: 70 grams per Unit

Serving Size: 2.32 grams per Serving







Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 197.260 mg/unit

Total CBD: 5441.870 mg/unit

Total Cannabinoids: 6009.220 mg/unit $\frac{\Delta^9$ -THC Acetate

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

Total THC = Δ^9 -THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ^9 -THC + THCa + CBD + CBDa + CBG + CBGa +

Sum of Cannabinoids: 6019.720 mg/unit THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8 -THC + CBL + CBN +

exo-THC + Δ^8 -THCV + Δ^8 -iso-THC + 9S-HHC + 9R-HHC + Δ^{10} -THC +

Total Cannabinoids = $(\Delta^9$ -THC+0.877*THCa) + (CBD+0.877*CBDa) + (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) + (CBDV+0.877*CBDVa) + Δ^8 -THC + CBL + CBN + exo-THC + Δ^8 -THCV +

 Δ^{8} -iso-THC + 9S-HHC + 9R-HHC + Δ^{10} -THC + Δ^{9} -THC Acetate

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.0231%

α-Bisabolol 0.132 mg/g

Guaiol 0.069 mg/g

β-Caryophyllene 0.030 mg/g

SAFETY ANALYSIS - SUMMARY

Pesticides: ND

Mycotoxins: ND

Residual Solvents: ND

Heavy Metals: ND

Microbiology (PCR): ND

Microbiology (Plating): ND

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written

Sample Certification: California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

Decision Rule: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT), too numerous to count >250 cfu/plate (TNTC), colony-forming unit (cfu)

Approved by: Josh Wurzer Title: Chief Compliance Officer Date: 08/01/2023



CERTIFICATE OF ANALYSIS



R&R FULL SPECTRUM 5000MG CBD CREAM | DATE ISSUED 08/01/2023

Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

†Analytes not part of our ISO/IEC 17025 scope of accreditation.

Method: QSP 1157 - Analysis of Cannabinoids by HPLC-DAD or QSP 34181 - Semisynthetic Cannabinoids Analysis by HPLC

TOTAL THC: 197.260 mg/unit

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 5441.870 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 6009.220 mg/unit

 $\begin{array}{l} Total \ Cannabinoids \ (Total \ THC) + (Total \ CBD) + \\ (Total \ CBG) + (Total \ THCV) + (Total \ CBC) + \\ (Total \ CBDV) + \Delta^8 - THC + CBL + CBN + exo-THC + \Delta^8 - THCV + \Delta^8 - THC + SP - THC + SP - THC + SP - THC + \Delta^{10} - \Delta^{10} - \Delta^{10} - \Delta^{10} -$

TOTAL CBG: 81.130 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 187.950 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 48.650 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 07/24/2023

	COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
	CBD	0.004 / 0.011	±2.8611	76.704	7.6704
	∆ ⁹ -THC	0.002/0.014	±0.1547	2.818	0.2818
	СВС	0.003 / 0.010	±0.0853	2.650	0.2650
	CBDa	0.001 / 0.026	±0.0336	1.182	0.1182
	CBG	0.002 / 0.006	±0.0562	1.159	0.1159
	CBDV	0.002/0.012	±0.0284	0.695	0.0695
	CBN	0.001 / 0.007	±0.0175	0.609	0.0609
	CBL	0.003 / 0.010	±0.0051	0.139	0.0139
	CBCa	0.001 / 0.015	±0.0015	0.040	0.0040
	CBDVa	0.001 / 0.018	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
	Δ^{8} -iso-THC †	0.025 / 0.084	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
	exo-THC [†]	0.028 / 0.093	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
it_	Δ^8 -THC	0.01 / 0.02	N/A	ND	ND
	THCa	0.001 / 0.005	N/A	ND	ND
	THCV	0.002/0.012	N/A	ND	ND
	THCVa	0.002/0.019	N/A	ND	ND
	CBGa	0.002 / 0.007	N/A	ND	ND
	9R-HHC [†]	0.027 / 0.089	N/A	ND	ND
	9S-HHC [†]	0.027 / 0.090	N/A	ND	ND
	Δ^{10} -THC †	0.024 / 0.078	N/A	ND	ND
	Δ^8 -THCV †	0.012/0.039	N/A	ND	ND
	Δ ⁹ -THC Acetate [†]	0.023 / 0.077	N/A	ND	ND
	SUM OF CANNAE	SINOIDS		85.996 mg/g	8.5996%

Unit Mass: 70 grams per Unit / Serving Size: 2.32 grams per Serving

Δ^9 -THC per Unit	197.260 mg/unit
Δ^9 -THC per Serving	6.538 mg/serving
Total THC per Unit	197.260 mg/unit
Total THC per Serving	6.538 mg/serving
CBD per Unit	5369.280 mg/unit
CBD per Serving	177.953 mg/serving
Total CBD per Unit	5441.870 mg/unit
Total CBD per Serving	180.359 mg/serving
Sum of Cannabinoids per Unit	6019.720 mg/unit
Sum of Cannabinoids per Serving	199.511 mg/serving
Total Cannabinoids per Unit	6009.220 mg/unit
Total Cannabinoids per Serving	199.163 mg/serving



CERTIFICATE OF ANALYSIS

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Terpenoid Analysis

Terpene analysis utilizing gas chromatographyflame ionization detection (GC-FID).

Method: QSP 1192 - Analysis of Terpenoids by GC-FID



α -Bisabolol

A sesquiterpene alcohol with a fragrance that can be described as floral, peppery, sweet and clean. Found in chamomile, figwort, yarrow, skullcaps, lavender, ironwort, germander...etc.



Guaiol

A sesquiterpene alcohol with a fragrance that can be described as floral, piney, herbal and woody. Found in guaiacum, cypress pine, ginseng, melaleuca, goatweed, incense grass...etc.



β -Caryophyllene

A sesquiterpene with a fragrance that can be described as spicy, woody, dry, dusty and mildly sweet. It was one of the first organic compounds to fully synthesized in a laboratory and plays a role in the endocannabinoid system as it is a functional CB₂ receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

TERPENOID TEST RESULTS - 07/24/2023

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
α-Bisabolol	0.008 / 0.026	±0.0055	0.132	0.0132
Guaiol	0.009/0.030	±0.0025	0.069	0.0069
β -Caryophyllene	0.004 / 0.012	±0.0008	0.030	0.0030
α-Humulene	0.009/0.029	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Nerolidol	0.006/0.019	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
α-Pinene	0.005 / 0.017	N/A	ND	ND
Camphene	0.005 / 0.015	N/A	ND	ND
Sabinene	0.004 / 0.014	N/A	ND	ND
β-Pinene	0.004 / 0.014	N/A	ND	ND
Myrcene	0.008 / 0.025	N/A	ND	ND
α-Phellandrene	0.006 / 0.020	N/A	ND	ND
Δ^3 -Carene	0.005 / 0.018	N/A	ND	ND
α-Terpinene	0.005 / 0.017	N/A	ND	ND
p-Cymene	0.005 / 0.016	N/A	ND	ND
Limonene	0.005 / 0.016	N/A	ND	ND
Eucalyptol	0.006 / 0.018	N/A	ND	ND
β-Ocimene	0.006 / 0.020	N/A	ND	ND
γ-Terpinene	0.006 / 0.018	N/A	ND	ND
Sabinene Hydrate	0.006 / 0.022	N/A	ND	ND
Fenchone	0.009 / 0.028	N/A	ND	ND
Terpinolene	0.008 / 0.026	N/A	ND	ND
Linalool	0.009/0.032	N/A	ND	ND
Fenchol	0.010 / 0.034	N/A	ND	ND
Isopulegol	0.005 / 0.016	N/A	ND	ND
Camphor	0.006/0.019	N/A	ND	ND
Isoborneol	0.004/0.012	N/A	ND	ND
Borneol	0.005/0.016	N/A	ND	ND
Menthol	0.008 / 0.025	N/A	ND	ND
Terpineol	0.009/0.031	N/A	ND	ND
Nerol	0.003 / 0.011	N/A	ND	ND
Citronellol	0.003 / 0.010	N/A	ND	ND
Pulegone	0.003 / 0.011	N/A	ND	ND
Geraniol	0.002 / 0.007	N/A	ND	ND
Geranyl Acetate	0.004 / 0.014	N/A	ND	ND
α-Cedrene	0.005 / 0.016	N/A	ND	ND
trans-β-Farnesene	0.008/0.025	N/A	ND	ND
Valencene	0.009/0.030	N/A	ND	ND
Caryophyllene Oxide	0.010 / 0.033	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
TOTAL TERPENOIDS			0.231 mg/g	0.0231%



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Pesticide Analysis

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

*GC-MS utilized where indicated.

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

PESTICIDE TEST RESULTS - 07/25/2023 ND

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)
Abamectin	0.032 / 0.097	N/A	ND
Acephate	0.006 / 0.018	N/A	ND
Acequinocyl	0.009 / 0.027	N/A	ND
Acetamiprid	0.016 / 0.049	N/A	ND
Aldicarb	0.030 / 0.090	N/A	ND
Allethrin	0.030 / 0.092	N/A	ND
Atrazine	0.006 / 0.019	N/A	ND
Azadirachtin	0.082 / 0.248	N/A	ND
Azoxystrobin	0.003 / 0.009	N/A	ND
Benzovindiflupyr	0.003 / 0.009	N/A	ND
Bifenazate	0.003 / 0.009	N/A	ND
Bifenthrin	0.021 / 0.064	N/A	ND
Boscalid	0.003 / 0.009	N/A	ND
Buprofezin	0.006 / 0.019	N/A	ND
Carbaryl	0.007 / 0.020	N/A	ND
Carbofuran	0.003 / 0.008	N/A	ND
Chlorantraniliprole	0.006 / 0.018	N/A	ND
Chlorfenapyr*	0.005 / 0.015	N/A	ND
Chlorpyrifos	0.013 / 0.039	N/A	ND
Clofentezine	0.003 / 0.009	N/A	ND
Clothianidin	0.008 / 0.025	N/A	ND
Coumaphos	0.003 / 0.010	N/A	ND
Cyantraniliprole	0.003 / 0.010	N/A	ND
Cyfluthrin	0.052/0.159	N/A	ND
Cypermethrin	0.051/0.153	N/A	ND
Cyprodinil	0.003 / 0.008	N/A	ND
Daminozide	0.026 / 0.077	N/A	ND
Deltamethrin	0.059 / 0.180	N/A	ND
Diazinon	0.006 / 0.017	N/A	ND
Dichlorvos (DDVP)	0.012 / 0.038	N/A	ND
Dimethoate	0.003 / 0.009	N/A	ND
Dimethomorph	0.016 / 0.050	N/A	ND
Dinotefuran	0.010 / 0.030	N/A	ND
Diuron	0.013 / 0.040	N/A	ND
Dodemorph	0.012 / 0.035	N/A	ND
Endosulfan sulfate	0.016 / 0.048	N/A	ND
Endosulfan-α*	0.004/0.014	N/A	ND
Endosulfan-β*	0.006/0.019	N/A	ND
Ethoprophos	0.003 / 0.009	N/A	ND
Etofenprox	0.014/0.042	N/A	ND
Etoxazole	0.007 / 0.020	N/A	ND

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CERTIFICATE OF ANALYSIS

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Pesticide Analysis Continued

PESTICIDE TEST RESULTS - 07/25/2023 continued ND

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (μg/g)
Etridiazole*	0.002 / 0.005	N/A	ND
Fenhexamid	0.003 / 0.008	N/A	ND
Fenoxycarb	0.003 / 0.010	N/A	ND
Fenpyroximate	0.007 / 0.020	N/A	ND
Fensulfothion	0.003 / 0.010	N/A	ND
Fenthion	0.003 / 0.010	N/A	ND
Fenvalerate	0.033 / 0.099	N/A	ND
Fipronil	0.003 / 0.010	N/A	ND
Flonicamid	0.007 / 0.022	N/A	ND
Fludioxonil	0.003 / 0.010	N/A	ND
Fluopyram	0.003 / 0.009	N/A	ND
Hexythiazox	0.003 / 0.010	N/A	ND
lmazalil	0.003 / 0.009	N/A	ND
Imidacloprid	0.003 / 0.010	N/A	ND
Iprodione	0.077 / 0.233	N/A	ND
Kinoprene	0.077 / 0.233	N/A	ND
Kresoxim-methyl	0.006 / 0.019	N/A	ND
λ-Cyhalothrin	0.068 / 0.206	N/A	ND
Malathion	0.003 / 0.009	N/A	ND
Metalaxyl	0.003 / 0.010	N/A	ND
Methiocarb	0.003 / 0.008	N/A	ND
Methomyl	0.008 / 0.025	N/A	ND
Methoprene	0.172 / 0.521	N/A	ND
Mevinphos	0.008/0.024	N/A	ND
MGK-264	0.015 / 0.047	N/A	ND
Myclobutanil	0.003 / 0.009	N/A	ND
Naled	0.021 / 0.064	N/A	ND
Novaluron	0.002 / 0.005	N/A	ND
Oxamyl	0.017 / 0.051	N/A	ND
Paclobutrazol	0.003 / 0.010	N/A	ND
Parathion-methyl	0.016 / 0.050	N/A	ND
Pentachloronitrobenzene*	0.004/0.012	N/A	ND
Permethrin	0.056 / 0.168	N/A	ND
Phenothrin	0.016 / 0.047	N/A	ND
Phosmet	0.007 / 0.020	N/A	ND
Piperonyl Butoxide	0.010 / 0.029	N/A	ND
Pirimicarb	0.003 / 0.009	N/A	ND
Prallethrin	0.015 / 0.046	N/A	ND
Propiconazole	0.027 / 0.080	N/A	ND
Propoxur	0.003 / 0.008	N/A	ND
Pyraclostrobin	0.003 / 0.010	N/A	ND

Continued on next page



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Pesticide Analysis Continued

PESTICIDE TEST RESULTS - 07/25/2023 continued ND

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)
Pyrethrins	0.016 / 0.049	N/A	ND
Pyridaben	0.005 / 0.017	N/A	ND
Pyriproxyfen	0.003 / 0.009	N/A	ND
Resmethrin	0.013 / 0.039	N/A	ND
Spinetoram	0.003 / 0.010	N/A	ND
Spinosad	0.003 / 0.010	N/A	ND
Spirodiclofen	0.031 / 0.093	N/A	ND
Spiromesifen	0.016 / 0.050	N/A	ND
Spirotetramat	0.003 / 0.010	N/A	ND
Spiroxamine	0.020 / 0.062	N/A	ND
Tebuconazole	0.003 / 0.010	N/A	ND
Tebufenozide	0.003 / 0.008	N/A	ND
Teflubenzuron	0.007 / 0.022	N/A	ND
Tetrachlorvinphos	0.003 / 0.008	N/A	ND
Tetramethrin	0.021 / 0.063	N/A	ND
Thiabendazole	0.006 / 0.020	N/A	ND
Thiacloprid	0.003 / 0.009	N/A	ND
Thiamethoxam	0.003 / 0.010	N/A	ND
Thiophanate-methyl	0.013 / 0.040	N/A	ND
Trifloxystrobin	0.003 / 0.009	N/A	ND



Mycotoxin Analysis

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS).

Method: QSP 1212 - Analysis of Pesticides and Mycotoxins by

MYCOTOXIN TEST RESULTS - 07/25/2023 ND

COMPOUND	LOD/LOQ (µg/kg)	MEASUREMENT UNCERTAINTY (μg/kg)	RESULT (µg/kg)
Aflatoxin B1	1.6 / 5.0	N/A	ND
Aflatoxin B2	1.4 / 4.1	N/A	ND
Aflatoxin G1	1.6 / 4.9	N/A	ND
Aflatoxin G2	1.6 / 5.0	N/A	ND
Total Aflatoxin			ND
Ochratoxin A	1.6 / 5.0	N/A	ND



Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

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Residual Solvents Analysis

Residual Solvent analysis utilizing gas chromatography-mass spectrometry (GC-MS).

Method: QSP 1204 - Analysis of Residual Solvents by GC-MS

Total Heptanes = n.Butane + 2-Methylpropane (Isobutane)
Total Heptanes = 2,2-Dimethylpentane (Neoheptane) +
2,3-Dimethylpentane + 2,4-Dimethylpentane + 3,3-Dimethylpentane + 2,2,3-Trimethylbutane (Triptane) + 2-Methylhexane (Isoheptane) +
3-Methylhexane + 3-Ethylpentane + n-Heptane
Total Xylenes = 1,2-Dimethylbenzene (o-Xylene) +
1,3-Dimethylbenzene (m-Xylene) / 1,4-Dimethylbenzene (p-Xylene)

RESIDUAL SOLVENTS TEST RESULTS - 07/25/2023 ND

100/100

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Propane	0.234 / 0.781	N/A	ND
2-Methylpropane (Isobutane)	0.052 / 0.173	N/A	ND
n-Butane	0.019/0.063	N/A	ND
Total Butanes			ND
n-Pentane	0.310 / 1.033	N/A	ND
n-Hexane	0.110 / 0.366	N/A	ND
2,2-Dimethylpentane (Neoheptane)	0.493 / 1.642	N/A	ND
2,3-Dimethylpentane	1.009 / 3.365	N/A	ND
2,4-Dimethylpentane	0.737 / 2.458	N/A	ND
3,3-Dimethylpentane	0.198 / 0.660	N/A	ND
2,2,3-Trimethylbutane (Triptane)	0.521 / 1.738	N/A	ND
2-Methylhexane (Isoheptane)	0.610 / 2.034	N/A	ND
3-Methylhexane	0.235 / 0.785	N/A	ND
3-Ethylpentane	0.304 / 1.012	N/A	ND
n-Heptane	13.12 / 43.72	N/A	ND
Total Heptanes			ND
Benzene	0.089 / 0.295	N/A	ND
Toluene	0.115 / 0.382	N/A	ND
1,3-Dimethylbenzene / 1,4-Dimethylbenzene	0.451 / 1.502	N/A	ND
1,2-Dimethylbenzene (o-Xylene)	0.387 / 1.289	N/A	ND
Total Xylenes			ND
Methanol	53.92 / 163.4	N/A	ND
Ethanol	8.984 / 27.23	N/A	ND
2-Propanol (Isopropyl Alcohol)	8.421 / 25.52	N/A	ND
Acetone	10.59 / 32.08	N/A	ND
Ethyl Acetate	1.123 / 3.745	N/A	ND



Heavy Metals Analysis

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: QSP 1160 - Analysis of Heavy Metals by ICP-MS

HEAVY METALS TEST RESULTS - 07/23/2023 ND

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (μg/g)
Arsenic	0.02 / 0.1	N/A	ND
Cadmium	0.02 / 0.05	N/A	ND
Lead	0.04 / 0.1	N/A	ND
Mercury	0.002 / 0.01	N/A	ND



Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS



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Microbiology Analysis

PCR AND PLATING

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants.

Method: QSP 1221 - Analysis of Microbiological Contaminants

Analysis conducted by $3M^{\rm TM}$ Petrifilm $^{\rm TM}$ and plate counts of microbiological contaminants.

Method: QSP 6794 - Plating with $3M^{TM}$ PetrifilmTM

MICROBIOLOGY TEST RESULTS (PCR) - 07/24/2023 ND

COMPOUND	RESULT
Shiga toxin-producing Escherichia coli	ND
Salmonella spp.	ND

MICROBIOLOGY TEST RESULTS (PLATING) - 07/24/2023 ND

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	ND
Total Yeast and Mold	ND
Coliforms	ND

NOTES

CoA Amended Update: Order Details-Unit Mass