

Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 10/13/2021

SAMPLE NAME: R+R Medicinals 1000mg Full Spectrum Hemp Extract Infused Cream

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name: License Number:

Address:

SAMPLE DETAIL

Batch Number: 3101 Sample ID: 210921S003 **DISTRIBUTOR / TESTED FOR**

Business Name: R+R Medicinals

License Number:

Address:

Date Collected: 09/21/2021 Date Received: 09/21/2021

Batch Size:

Sample Size: 1.0 units Unit Mass: 74 grams per Unit

Serving Size: 2.45 grams per Serving







Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 31.820 mg/unit

Total CBD: 1062.122 mg/unit

Total Cannabinoids: 1165.944 mg/unit

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 9THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877))

Sum of Cannabinoids = Δ 9THC + THCa + CBD + CBDa + CBG + CBGa + Sum of Cannabinoids: 1165.944 mg/unit THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ8THC + CBL + CBN Total Cannabinoids = $(\Delta 9THC+0.877*THCa) + (CBD+0.877*CBDa) +$ (CBG+0.877*CBGa) + (THCV+0.877*THCVa) + (CBC+0.877*CBCa) +

(CBDV+0.877*CBDVa) + Δ8THC + CBL + CBN

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.0086%

Guaiol 0.045 mg/g

 β Caryophyllene 0.041 mg/g

α Humulene <LOQ

SAFETY ANALYSIS - SUMMARY

Pesticides: PASS

Heavy Metals: OPASS

Mycotoxins: PASS

Microbiology (PCR): PASS

Residual Solvents: PASS

Microbiology (Plating): PASS

For quality assurance purposes. Not a Pre-Harvest 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: Action Limits used in this report are a compilation of guidance from state regulatory agencies in all states. Action limits for required tests are either state-specific, or the lower of any conflicting state regulations based upon the panel requested.

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)

Verified by: Mackenzie Whitman e: 10/13/2021

oproved by: Josh Wurzer, President ate: 10/13/2021





R+R MEDICINALS 1000MG FULL SPECTRUM HEMP EXTRACT INFUSED CREAM | DATE ISSUED 10/13/2021



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

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

TOTAL THC: 31.820 mg/unit Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 1062.122 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 1165.944 mg/unit

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

TOTAL CBG: 22.718 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 38.628 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 6.364 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 09/23/2021

	COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT mg/g	RESULT (mg/g)	RESULT (%)
Ī	CBD	0.004 / 0.011	±0.6875	14.353	1.4353
	СВС	0.003 / 0.010	±0.0216	0.522	0.0522
	Δ9ΤΗС	0.002 / 0.014	±0.0303	0.430	0.0430
Ī	CBG	0.002 / 0.006	±0.0191	0.307	0.0307
	CBDV	0.002 / 0.012	±0.0045	0.086	0.0086
	CBL	0.003 / 0.010	±0.0023	0.049	0.0049
	CBN	0.001 / 0.007	±0.0003	0.009	0.0009
	Δ8ΤΗС	0.01 / 0.02	N/A	ND	ND
t -	THCV	0.002 / 0.012	N/A	ND	ND
١.	THCVa	0.002 / 0.019	N/A	ND	ND
	CBDa	0.001 / 0.026	N/A	ND	ND
	CBDVa	0.001 / 0.018	N/A	ND	ND
	CBGa	0.002 / 0.007	N/A	ND	ND
	CBCa	0.001 / 0.015	N/A	ND	ND
	THCa	0.001 / 0.005	N/A	ND	ND
	SUM OF CANNA	BINOIDS		15.756 mg/g	1.5756%

Unit Mass: 74 grams per Unit / Serving Size: 2.45 grams per Serving

Δ9THC per Unit	31.820 mg/unit
Δ9THC per Serving	1.054 mg/serving
Total THC per Unit	31.820 mg/unit
Total THC per Serving	1.054 mg/serving
CBD per Unit	1062.122 mg/unit
CBD per Serving	35.165 mg/serving
Total CBD per Unit	1062.122 mg/unit
Total CBD per Serving	35.165 mg/serving
Sum of Cannabinoids per Unit	1165.944 mg/unit
Sum of Cannabinoids per Serving	38.602 mg/serving
Total Cannabinoids per Unit	1165.944 mg/unit
Total Cannabinoids per Serving	38.603 mg/serving







R+R MEDICINALS 1000MG FULL SPECTRUM HEMP EXTRACT INFUSED CREAM | DATE ISSUED 10/13/2021



Terpenoid Analysis

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

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



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.



α Humulene

Also known as α -caryophyllene, it is an isomer of the sesquiterpene β -Caryophyllene which frequently occurs in nature with many aromatic plants across the globe. It has a fragrance that can be described as earthy or musky with spicy undertones. Found in hops, forskohlii, skullcaps, basil, nutmeg, cloves, sage, cotton, tamarind, black pepper, guava, Scotch pine...etc.



COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT mg/g	RESULT (mg/g)	RESULT (%)
Guaiol	0.009/0.030	±0.0021	0.045	0.0045
β Caryophyllene	0.004 / 0.012	±0.0015	0.041	0.0041
α Humulene	0.009 / 0.029	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Caryophyllene Oxide	0.010 / 0.033	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
α Bisabolol	0.008 / 0.026	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
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
Ocimene	0.011/0.038	N/A	ND	ND
γTerpinene	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	0.016 / 0.055	N/A	ND	ND
Nerol	0.003 / 0.011	N/A	ND	ND
Citronellol	0.003 / 0.010	N/A	ND	ND
R-(+)-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
Nerolidol	0.009 / 0.028	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
TOTAL TERPENOIDS			0.086 mg/g	0.0086%







R+R MEDICINALS 1000MG FULL SPECTRUM HEMP EXTRACT INFUSED CREAM | DATE ISSUED 10/13/2021



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 - 09/24/2021 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT µg/g	RESULT (µg/g)	RESULT
Abamectin	0.032 / 0.097	0.07	N/A	ND	PASS
Acephate	0.006 / 0.018	0.05	N/A	ND	PASS
Acequinocyl	0.009/0.027	0.03	N/A	ND	PASS
Acetamiprid	0.016 / 0.049	0.05	N/A	ND	PASS
Aldicarb	0.030 / 0.090	0.1	N/A	ND	PASS
Allethrin	0.030 / 0.092	0.1	N/A	ND	PASS
Atrazine	0.006/0.019	0.025	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	0.2	N/A	ND	PASS
Boscalid	0.003 / 0.009	0.01	N/A	ND	PASS
Buprofezin	0.006/0.019	0.02	N/A	ND	PASS
Captan	0.045 / 0.135	3	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	0.02	N/A	ND	PASS
Chlordane*	0.005 / 0.107	0.1	N/A	ND	PASS
Chlorfenapyr*	0.005 / 0.015	0.1	N/A	ND	PASS
Chlormequat chloride	0.022 / 0.066	3	N/A	ND	PASS
Chlorpyrifos	0.013 / 0.039	0.04	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	0.1	N/A	ND	PASS
Cypermethrin	0.051 / 0.153	0.3	N/A	ND	PASS
Cyprodinil	0.026 / 0.080	0.01	N/A	ND	PASS
Daminozide	0.026 / 0.077	0.1	N/A	ND	PASS
DDVP (Dichlorvos)	0.012 / 0.038	0.1	N/A	ND	PASS
Deltamethrin	0.059 / 0.180	0.5	N/A	ND	PASS
Diazinon	0.006 / 0.017	0.02	N/A	ND	PASS
Dimethoate	0.003 / 0.009	0.1	N/A	ND	PASS
Dimethomorph	0.016 / 0.050	0.05	N/A	ND	PASS
Dinotefuran	0.010 / 0.030	0.05	N/A	ND	PASS
Diuron	0.013 / 0.040	0.125	N/A	ND	PASS
Dodemorph	0.012 / 0.035	0.05	N/A	ND	PASS
Endosulfan sulfate	0.016 / 0.048	0.05	N/A	ND	PASS
Endosulfan-alpha*	0.004/0.014	0.2	N/A	ND	PASS
Endosulfan-beta*	0.006 / 0.019	0.05	N/A	ND	PASS



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R+R MEDICINALS 1000MG FULL SPECTRUM HEMP EXTRACT INFUSED CREAM | DATE ISSUED 10/13/2021



Pesticide Analysis Continued

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 - 09/24/2021 continued **⊘** PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT μg/g	RESULT (µg/g)	RESULT
Ethoprop(hos)	0.003 / 0.009	0.01	N/A	ND	PASS
Etofenprox	0.014 / 0.042	0.05	N/A	ND	PASS
Etoxazole	0.007 / 0.020	0.01	N/A	ND	PASS
Etridiazole*	0.002 / 0.005	0.03	N/A	ND	PASS
Fenhexamid	0.003 / 0.008	0.125	N/A	ND	PASS
Fenoxycarb	0.003 / 0.010	0.01	N/A	ND	PASS
Fenpyroximate	0.007 / 0.020	0.2	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	0.1	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	0.01	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	ND	PASS
Kinoprene	0.077 / 0.233	0.5	N/A	ND	PASS
Kresoxim-methyl	0.006/0.019	0.02	N/A	ND	PASS
Malathion	0.003 / 0.009	0.02	N/A	ND	PASS
Metalaxyl	0.003 / 0.010	0.02	N/A	ND	PASS
Methiocarb	0.003 / 0.008	0.02	N/A	ND	PASS
Methomyl	0.008 / 0.025	0.05	N/A	ND	PASS
Methoprene	0.172 / 0.521	2	N/A	ND	PASS
Methyl parathion	0.016 / 0.050	0.05	N/A	ND	PASS
Mevinphos	0.008 / 0.024	0.025	N/A	ND	PASS
MGK-264	0.015 / 0.047	0.05	N/A	ND	PASS
Myclobutanil	0.003 / 0.009	0.01	N/A	ND	PASS
Naled	0.021 / 0.064	0.1	N/A	ND	PASS
Novaluron	0.002 / 0.005	0.025	N/A	ND	PASS
Oxamyl	0.017 / 0.051	0.5	N/A	ND	PASS
Paclobutrazol	0.003 / 0.010	0.01	N/A	ND	PASS
Pentachloronitrobenzene*	0.004 / 0.012	0.02	N/A	ND	PASS
Permethrin	0.056 / 0.168	0.04	N/A	ND	PASS
Phenothrin	0.016 / 0.047	0.05	N/A	ND	PASS
Phosmet	0.007 / 0.020	0.02	N/A	ND	PASS
Piperonylbutoxide	0.010 / 0.029	0.2	N/A	ND	PASS
Pirimicarb	0.015 / 0.046	0.01	N/A	ND	PASS
Prallethrin	0.003 / 0.009	0.05	N/A	ND	PASS
Propiconazole	0.027 / 0.080	0.1	N/A	ND	PASS



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R+R MEDICINALS 1000MG FULL SPECTRUM HEMP EXTRACT INFUSED CREAM | DATE ISSUED 10/13/2021



Pesticide Analysis Continued

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 - 09/24/2021 continued **⊘** PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT µg/g	RESULT (µg/g)	RESULT
Propoxur	0.003 / 0.008	0.01	N/A	ND	PASS
Pyraclostrobin	0.003/0.010	0.01	N/A	ND	PASS
Pyrethrins	0.016/0.049	0.05	N/A	ND	PASS
Pyridaben	0.005/0.017	0.02	N/A	ND	PASS
Pyriproxyfen	0.003/0.009	0.01	N/A	ND	PASS
Resmethrin	0.013/0.039	0.05	N/A	ND	PASS
Spinetoram	0.004/0.014	0.01	N/A	ND	PASS
Spinosad	0.004/0.012	0.01	N/A	ND	PASS
Spirodiclofen	0.031/0.093	0.25	N/A	ND	PASS
Spiromesifen	0.016 / 0.050	0.03	N/A	ND	PASS
Spirotetramat	0.003/0.010	0.01	N/A	ND	PASS
Spiroxamine	0.020 / 0.062	0.1	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	0.1	N/A	ND	PASS
Thiabendazole	0.006 / 0.020	0.02	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	0.05	N/A	ND	PASS
Trifloxystrobin	0.003 / 0.009	0.02	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

Additions¹ see last page

MYCOTOXIN TEST RESULTS - 09/23/2021 **⊘** PASS

_	COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (μg/kg)	MEASUREMENT μg/kg	RESULT (µg/kg)	RESULT
	Aflatoxin B1	2.0 / 6.0	5	N/A	ND	PASS
	Aflatoxin B2	1.8 / 5.6	20	N/A	ND	PASS
	Aflatoxin G1	1.0 / 3.1	20	N/A	ND	PASS
	Aflatoxin G2	1.2 / 3.5	20	N/A	ND	PASS
	Total Aflatoxin		20		ND	PASS
	Ochratoxin A	6.3 / 19.2	5	N/A	ND	PASS







R+R MEDICINALS 1000MG FULL SPECTRUM HEMP EXTRACT INFUSED CREAM | DATE ISSUED 10/13/2021



Residual Solvents Analysis

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

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

RESIDUAL SOLVENTS TEST RESULTS - 09/24/2021 **⊘** PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT μg/g	RESULT (μg/g)	RESULT
Propane	0.133 / 0.445	500	N/A	ND	PASS
Butane	0.042 / 0.141	2000	N/A	ND	PASS
Methylpropane	0.04 / 0.133	5000	N/A	ND	PASS
Total Butanes		500		ND	PASS
2-Methylbutane	0.065 / 0.216	5000	N/A	ND	PASS
2,2-Dimethylpropane	0.181 / 0.604		N/A	ND	
Pentane	0.181 / 0.604	1000	N/A	ND	PASS
Total Pentanes		500		ND	PASS
2,2-Dimethylbutane	0.147 / 0.488	290	N/A	ND	PASS
2,3-Dimethylbutane 2-Methylpentane	0.375 / 1.249	290	N/A	ND	PASS
3-Methylpentane	0.075 / 0.251	290	N/A	ND	PASS
Hexane	0.054 / 0.181	0	N/A	ND	PASS
Total Hexanes		290		ND	PASS
Cyclohexane	0.091 / 0.302	500	N/A	ND	PASS
Heptane	0.153 / 0.511	500	N/A	ND	PASS
Benzene	0.066 / 0.221	0	N/A	ND	PASS
Toluene	0.074 / 0.246	0	N/A	ND	PASS
Cumene	0.31 / 1.033	70	N/A	ND	PASS
1,2-Dimethylbenzene	0.239 / 0.797	2170	N/A	ND	PASS
1,3-Dimethylbenzene 1,4-Dimethylbenzene	0.213 / 0.71	2170	N/A	ND	PASS
Ethylbenzene	0.176 / 0.586	2170	N/A	ND	PASS
Total Xylenes	0.320 / 1.067	217	N/A	ND	PASS
Methanol	0.018 / 0.061	500	±0.5189	6.593	PASS
Ethanol	0.129 / 0.429	1000	±0.5941	7.858	PASS
1-Propanol	0.528 / 1.759	5000	N/A	ND	PASS
Isopropyl Alcohol	0.064 / 0.214	500	±0.3784	4.140	PASS
1-Butanol	0.17 / 0.565	5000	N/A	ND	PASS
2-Butanol	0.535 / 1.784	5000	N/A	ND	PASS
1-Pentanol	0.379 / 1.262		N/A	ND	
Acetone	0.083 / 0.277	5000	N/A	ND	PASS
2-Butanone	0.193 / 0.642	5000	N/A	ND	PASS
Tetrahydrofuran	0.22 / 0.735	720	N/A	ND	PASS
Ethyl ether	0.1 / 0.335	5000	N/A	ND	PASS
Ethylene Glycol	31.104 / 103.68	620	N/A	ND	PASS
2-Ethoxyethanol	1.08 / 3.599	160	N/A	ND	PASS
1,2-Dimethoxyethane	1.093 / 3.645	100	N/A	ND	PASS
1,4-Dioxane	0.379 / 1.265	380	N/A	ND	PASS
Ethylene Oxide	0.05 / 0.166	5	N/A	ND	PASS
Ethyl acetate	0.29 / 0.967	1000	N/A	ND	PASS
Isopropyl Acetate	0.346 / 1.153	5000	N/A	ND	PASS



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Residual Solvents Analysis *Continued*

sc labs™

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

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

RESIDUAL SOLVENTS TEST RESULTS - 09/24/2021 continued **⊘ PASS**

	COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT μg/g	RESULT (µg/g)	RESULT
	Chloroform	0.1/0.2	1	N/A	ND	PASS
	Methylene chloride	0.114/0.381	600	N/A	ND	PASS
	Trichloroethylene	0.1/0.3	80	N/A	ND	PASS
	1,2-Dichloroethane	0.05 / 0.1	5	N/A	ND	PASS
	Sulfolane	11.728 / 39.094	160	N/A	ND	PASS
	Dimethyl Sulfoxide	1.679 / 5.596	5000	N/A	ND	PASS
	Acetonitrile	0.049 / 0.164	410	N/A	ND	PASS
	Pyridine	0.118/0.394	100	N/A	ND	PASS
	N,N-Dimethylacetamide	0.2 / 0.668	1090	N/A	ND	PASS
Ī	N,N-Dimethylformamide	0.335 / 1.116	880	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 - 09/22/2021 **⊘** PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT μg/g	RESULT (μg/g)	RESULT
Arsenic	0.02 / 0.1	0.42	N/A	ND	PASS
Cadmium	0.02 / 0.05	0.27	N/A	ND	PASS
Lead	0.04 / 0.1	0.5	N/A	ND	PASS
Mercury	0.002 / 0.01	0.4	N/A	ND	PASS





Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

R+R MEDICINALS 1000MG FULL SPECTRUM HEMP EXTRACT INFUSED CREAM | DATE ISSUED 10/13/2021



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

MICROBIOLOGY TEST RESULTS (PCR) - 09/25/2021 PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Shiga toxin-producing Escherichia coli	Not Detected in 1g	ND	PASS
Salmonella spp.	Not Detected in 1g	ND	PASS
Aspergillus fumigatus	Not Detected in 1g	ND	PASS
Aspergillus flavus	Not Detected in 1g	ND	PASS
Aspergillus niger	Not Detected in 1g	ND	PASS
Aspergillus terreus	Not Detected in 1g	ND	PASS
Candida albicans	Not Detected in 1g	ND	PASS
Campylobacter spp.	Detect	ND	PASS
Yersinia spp.	Detect	ND	PASS
Listeria monocytogenes	Detect	ND	PASS
Psuedomonas aeruginosa	Not Detected in 1g	ND	PASS
Bile-Tolerant Gram-Negative Bacteria	100	ND	PASS
Staphylococcus aureus	Not Detected in 1g	ND	PASS

Analysis conducted by 3M[™] Petrifilm[™] and plate counts of microbiological contaminants.

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

MICROBIOLOGY TEST RESULTS (PLATING) - 09/25/2021 PASS

(cfu/g)	(cfu/g)	RESULT
100	ND	PASS
10	ND	PASS
1000	ND	PASS
Not Detected in 1g	ND	PASS
100	ND	PASS
	(cfu/g) 100 10 100 Not Detected in 1g	(cfu/g) (cfu/g) 100 ND 10 ND 1000 ND Not Detected in 1g ND

NOTES

COA amended, update to action limit application.

1. Additions: Aflatoxin B1 LOD/LOQ: 1.6/5.0,

Aflatoxin B2 LOD/LOQ: 1.4/4.1, Aflatoxin G1 LOD/LOQ: 1.6/4.9, Aflatoxin G2 LOD/LOQ: 1.6/5.0, Ochratoxin A LOD/LOQ: 1.6/5.0

