

Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 11/22/2021

SAMPLE NAME: R+R Medicinals 5mg Full Spectrum Pet Chews - Chicken Flavored

Infused, Hemp Infused

CULTIVATOR / MANUFACTURER

Business Name: License Number:

Address:

SAMPLE DETAIL

Batch Number: 6001 **Sample ID:** 211113S008

DISTRIBUTOR / TESTED FOR

Business Name: R+R Medicinals

License Number:

Address:

Date Collected: 11/13/2021 **Date Received:** 11/13/2021

Batch Size:

Sample Size: 1.0 units

Unit Mass: 132 grams per Unit **Serving Size:** 2.2 grams per Serving









Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 13.068 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 = Δ9THC + (THCa (0.877))

Total CBD: 323.136 mg/unit

Total CBD = CBD + (CBDa (0.877))

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

Sum of Cannabinoids: 368.676 mg/unit
THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ8THC + CBL + CBN
Total Cannabinoids = (Δ9THC+0.877*THCa) + (CBD+0.877*CBDa) +

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

Total Cannabinoids: 368.676 mg/unit (CBDV+0.877*CBDVa) + \(\Delta \text{STHC} + \(\text{CBL} + \text{CBN} \)

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: 0.0067%

igorplus eta Caryophyllene 0.067 mg/g

α Humulene <LOQ

α Bisabolol <LOQ</p>

SAFETY ANALYSIS - SUMMARY

Pesticides:

PASS PASS Residual Solvents:

PASS Residual Solvents:

PASS PASS

Heavy Metals:

PASS Microbiology (PCR):

PASS Microbiology (Plating):

PASS PASS Microbiology (Plating):

PASS Microbiology (Plating):

PASS Microbiology (Plating):

PASS Microbiology (PCR):

PASS MICRO

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 approval of the laboratory.

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.

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

Approved by: Josh Wurzer, President Date: 11/22/2021





R+R MEDICINALS 5MG FULL SPECTRUM PET CHEWS - CHICKEN FLAVORED | DATE ISSUED 11/22/2021

Cannabinoid Analysis

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

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

TOTAL THC: 13.068 mg/unit Total THC (Δ9THC+0.877*THCa)

TOTAL CBD: 323.136 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 368.676 mg/unit

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

TOTAL CBG: 7.920 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: <LOQ
Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 21.252 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 3.300 mg/unit
Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 11/14/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.004/0.011	±0.1173	2.448	0.2448
СВС	0.003 / 0.010	±0.0067	0.161	0.0161
Δ9ΤΗС	0.002/0.014	±0.0070	0.099	0.0099
CBG	0.002 / 0.006	±0.0037	0.060	0.0060
CBDV	0.002/0.012	±0.0013	0.025	0.0025
THCV	0.002/0.012	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>
Δ8ΤΗC	0.01 / 0.02	N/A	ND	ND
THCa	0.001 / 0.005	N/A	ND	ND
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
CBL	0.003 / 0.010	N/A	ND	ND
CBN	0.001 / 0.007	N/A	ND	ND
CBCa	0.001 / 0.015	N/A	ND	ND
SUM OF CANNAI	BINOIDS		2.793 mg/g	0.2793%

Unit Mass: 132 grams per Unit / Serving Size: 2.2 grams per Serving

4	Δ9THC per Unit	IIVI	13.068 mg/unit
	Δ9THC per Serving		0.218 mg/serving
	Total THC per Unit		13.068 mg/unit
	Total THC per Serving		0.218 mg/serving
	CBD per Unit		323.136 mg/unit
	CBD per Serving		5.386 mg/serving
	Total CBD per Unit		323.136 mg/unit
	Total CBD per Serving		5.386 mg/serving
	Sum of Cannabinoids per Unit		368.676 mg/unit
	Sum of Cannabinoids per Serving		6.145 mg/serving
	Total Cannabinoids per Unit		368.676 mg/unit
	Total Cannabinoids per Serving		6.145 mg/serving







R+R MEDICINALS 5MG FULL SPECTRUM PET CHEWS - CHICKEN FLAVORED | DATE ISSUED 11/22/2021



Terpenoid Analysis

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

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



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.



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.

TERPENOID TEST RESULTS - 11/15/2021

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β Caryophyllene	0.004 / 0.012	±0.0024	0.067	0.0067
α Humulene	0.009/0.029	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
Caryophyllene Oxide	0.010 / 0.033	N/A	ND	ND
Guaiol	0.009 / 0.030	N/A	ND	ND
Cedrol	0.008 / 0.027	N/A	ND	ND
TOTAL TERPENOIDS			0.067 mg/g	0.0067%









R+R MEDICINALS 5MG FULL SPECTRUM PET CHEWS - CHICKEN FLAVORED | DATE ISSUED 11/22/2021



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 - 11/15/2021 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT UNCERTAINTY (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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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 - 11/15/2021 continued **⊘** PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT UNCERTAINTY (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
lmazalil	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 5MG FULL SPECTRUM PET CHEWS - CHICKEN FLAVORED | DATE ISSUED 11/22/2021



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 - 11/15/2021 continued **⊘** PASS

	COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (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
4	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

MYCOTOXIN TEST RESULTS - 11/15/2021 **⊘** PASS

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









R+R MEDICINALS 5MG FULL SPECTRUM PET CHEWS - CHICKEN FLAVORED | DATE ISSUED 11/22/2021



Residual Solvents Analysis

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

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

Propane 0.	133 / 0.445				
· · · · · · · · · · · · · · · · · · ·	1007 01110	500	N/A	ND	PASS
Butane 0.0	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 0.0	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	375 / 1.249	290	N/A	ND	PASS
3-Methylpentane 0.0	075 / 0.251	290	N/A	ND	PASS
Hexane 0.0	054 / 0.181	0	N/A	ND	PASS
Total Hexanes		290		ND	PASS
Cyclohexane 0.0	091 / 0.302	500	N/A	ND	PASS
Heptane 0.	153/0.511	500	N/A	ND	PASS
Benzene 0.0	066 / 0.221	0	N/A	ND	PASS
Toluene 0.0	074 / 0.246	0	N/A	ND	PASS
Cumene 0.	.31 / 1.033	70	N/A	ND	PASS
1,2-Dimethylbenzene 0.2	239 / 0.797	2170	N/A	ND	PASS
1,3-Dimethylbenzene 0.	.213 / 0.71	2170	N/A	ND	PASS
Ethylbenzene 0.	176 / 0.586	2170	N/A	ND	PASS
Total Xylenes 0.3	320 / 1.067	217	N/A	ND	PASS
Methanol 0.0	018/0.061	500	±3.2338	41.090	PASS
Ethanol 0.	129 / 0.429	1000	±0.1374	1.818	PASS
1-Propanol 0.5	528 / 1.759	5000	N/A	ND	PASS
Isopropyl Alcohol 0.0	064/0.214	500	N/A	ND	PASS
1-Butanol 0.	.17 / 0.565	5000	N/A	ND	PASS
2-Butanol 0.5	535 / 1.784	5000	N/A	ND	PASS
1-Pentanol 0.3	379 / 1.262		N/A	ND	
Acetone 0.0	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	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	093 / 3.645	100	N/A	ND	PASS
1,4-Dioxane 0.3	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 0.3	346 / 1.153	5000	N/A	ND	PASS



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Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

R+R MEDICINALS 5MG FULL SPECTRUM PET CHEWS - CHICKEN FLAVORED | DATE ISSUED 11/22/2021



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

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

RESIDUAL SOLVENTS TEST RESULTS - 11/15/2021 continued PASS

co	OMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Ch	loroform	0.1/0.2	1	N/A	ND	PASS
Me	ethylene chloride	0.114/0.381	600	N/A	ND	PASS
Tri	chloroethylene	0.1/0.3	80	N/A	ND	PASS
1,2	2-Dichloroethane	0.05 / 0.1	5	N/A	ND	PASS
Sul	lfolane	11.728 / 39.094	160	N/A	ND	PASS
Dir	methyl Sulfoxide	1.679 / 5.596	5000	N/A	ND	PASS
Ac	etonitrile	0.049 / 0.164	410	±0.0168	0.320	PASS
Pyı	ridine	0.118/0.394	100	N/A	ND	PASS
Ν,Ι	N-Dimethylacetamide	0.2 / 0.668	1090	N/A	ND	PASS
Ν,Ι	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 - 11/16/2021 **⊘** PASS

	COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (μg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Ī	Arsenic	0.02 / 0.1	0.42	N/A	<loq< th=""><th>PASS</th></loq<>	PASS
Ī	Cadmium	0.02 / 0.05	0.27	±0.002	0.06	PASS
Ī	Lead	0.04 / 0.1	0.5	N/A	ND	PASS
	Mercury	0.002 / 0.01	0.4	N/A	ND	PASS



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) - 11/17/2021 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
Candida albicans	Not Detected in 1g	ND	PASS
Campylobacter spp.	Not Detected in 1g	ND	PASS
Yersinia spp.	Not Detected in 1g	ND	PASS
Listeria monocytogenes	Not Detected in 1g	ND	PASS
Staphylococcus aureus	Not Detected in 1g	ND	PASS





Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

R+R MEDICINALS 5MG FULL SPECTRUM PET CHEWS - CHICKEN FLAVORED | DATE ISSUED 11/22/2021



PCR AND PLATING

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

Method: QSP 6794 - Plating with 3M[™] Petrifilm[™]

Microbiology Analysis Continued MICROBIOLOGY TEST RESULTS (PLATING) - 11/17/2021 PASS

COMPOUND	ACTION LIMIT (cfu/g)	RESULT (cfu/g)	RESULT
Total Enterobacteriaceae	1000	100.0	PASS
Escherichia coli	Not Detected in 10g	ND	PASS
Coliforms	100	ND	PASS

NOTES

CoA amended update: Order Details

