SC Labs®

Official Compliance: Colorado Hemp
CERTIFICATE OF ANALYSIS

DATE ISSUED 08/21/2023

SAMPLE NAME: Comfort Balm
Infused, Colorado Infused

CULTIVATOR / MANUFACTURER
Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR
Business Name: Moon Mother Hemp Co.
License Number:
Address:

SAMPLE DETAIL
Batch Number: 72305
Sample ID: 230718S004
Date of Sampling: 07/18/2023
Time of Sampling: 4:51 p.m.
Sampler Name:
Sampler Company:

Date Collected: 07/18/2023
Date Received: 07/18/2023
Batch Size:
Sample Size: 1.0 units
Unit Mass: 28 grams per Unit
Serving Size:

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: 11.564 mg/unit

Total CBD: 293.720 mg/unit

Sum of Cannabinoids: 329.952 mg/unit

Total Cannabinoids: 329.784 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^9-THC + (THCa (0.877))
Total CBD = CBD + (CBDa (0.877))
Sum of Cannabinoids = Δ^9-THC + THCa + CBD + CBDa + CBG + CBGa + THCV + THCVa + CBC + CBCa + CBDV + CBDVa + Δ^8-THC + CBL + CBN
Total Cannabinoids = (Δ^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

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: 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)

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 08/21/2023

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: 11.564 mg/unit
Total THC (Δ^9-THC+0.877*THCa)

TOTAL CBD: 293.720 mg/unit
Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 329.784 mg/unit
Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + Δ^8-THC + CBL + CBN

TOTAL CBG: 7.840 mg/unit
Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND
Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 14.336 mg/unit
Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 2.324 mg/unit
Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 07/21/2023

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	*0.004 / 0.011*	*±0.3898*	10.450	1.0450
CBC	*0.003 / 0.010*	*±0.0165*	0.512	0.0512
Δ^9-THC	*0.002 / 0.014*	*±0.0227*	0.413	0.0413
CBG	*0.002 / 0.006*	*±0.0136*	0.280	0.0280
CBDV	*0.002 / 0.012*	*±0.0034*	0.083	0.0083
CBDa	*0.001 / 0.026*	*±0.0013*	0.046	0.0046
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
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
Total THC		*±0.0227*	0.413	0.0413
SUM OF CANNABINOIDS			11.784 mg/g	1.1784%

Unit Mass: 28 grams per Unit

Δ^9-THC per Unit		11.564 mg/unit
Total THC per Unit		11.564 mg/unit
CBD per Unit		292.600 mg/unit
Total CBD per Unit		293.720 mg/unit
Sum of Cannabinoids per Unit		329.952 mg/unit
Total Cannabinoids per Unit		329.784 mg/unit

NOTES
Associated Safety Testing Panel was run under SCL ID 230718S008

SC Labs®

Official Compliance: Colorado Hemp
CERTIFICATE OF ANALYSIS

DATE ISSUED 07/28/2023

SAMPLE NAME: Composite Safety Testing
Infused, Colorado Infused

CULTIVATOR / MANUFACTURER
Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR
Business Name: Moon Mother Hemp Co.
License Number:
Address:

SAMPLE DETAIL
Batch Number: n/a
Sample ID: 230718S008
Date of Sampling: 07/18/2023
Time of Sampling: 4:51 p.m.
Sampler Name:
Sampler Company:

Date Collected: 07/18/2023
Date Received: 07/18/2023
Batch Size:
Sample Size: 1.0 units
Unit Mass:
Serving Size:

Scan QR code to verify authenticity of results.

SAFETY ANALYSIS - SUMMARY

Pesticides: ND

Mycotoxins: PASS

Residual Solvents: ND

Heavy Metals: PASS

Microbiology (PCR): PASS

Microbiology (Plating): PASS

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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
Job Title: Chief Compliance Officer
Date: 07/28/2023

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 - 07/20/2023 **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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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 07/20/2023 *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
Imazalil	*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

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 07/20/2023 *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 LC-MS

MYCOTOXIN TEST RESULTS - 07/20/2023 PASS

COMPOUND	LOD/LOQ (µg/kg)	ACTION LIMIT (µg/kg)	MEASUREMENT UNCERTAINTY (µg/kg)	RESULT (µg/kg)	RESULT
Aflatoxin B1	*1.6 / 5.0*	*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

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 - 07/21/2023 **ND**

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 - 07/21/2023 PASS

COMPOUND	LOD/LOQ (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

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) - 07/23/2023 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

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

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

MICROBIOLOGY TEST RESULTS (PLATING) - 07/23/2023 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