Hemp Quality Assurance Testing

CERTIFICATE OF ANALYSIS

DATE ISSUED 01/17/2024

SAMPLE NAME: GREEN GRUFF EASE Joint & Hip Plus CBD - Jar | 90 Soft Chews

Infused, Hemp

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR

Business Name: GREEN GRUFF USA INC
License Number:
Address:



SAMPLE DETAIL

Batch Number: 3255887
Sample ID: 240109N029

Date Collected: 01/09/2024
Date Received: 01/09/2024
Batch Size:
Sample Size: 1.0 units
Unit Mass: 180 grams per Unit
Serving Size: 2 grams per Serving

Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

CALCULATED USING DRY-WEIGHT

Total THC: 6.4440 mg/unit

Total CBD: 553.320 mg/unit

Sum of Cannabinoids: 596.700 mg/unit

Total Cannabinoids: 596.700 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 + exo-THC + Δ^8-THCV + Δ^8-iso-THC + 9S-HHC + 9R-HHC + Δ^{10}-THC + Δ^9-THC Acetate
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 + exo-THC + Δ^8-THCV + Δ^8-iso-THC + 9S-HHC + 9R-HHC + Δ^{10}-THC + Δ^9-THC Acetate

Moisture: 7.9%

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: <LOQ

Borneol <LOQ | β-Caryophyllene <LOQ | Nerolidol <LOQ

SAFETY ANALYSIS - SUMMARY

Pesticides: ND
Mycotoxins: ND
Residual Solvents: ND
Heavy Metals: DETECTED
Microbiology (PCR): DETECTED
Microbiology (Plating): DETECTED
Foreign Material: PASS
Water Activity: DETECTED
Vitamin E: DETECTED

LQC verified by: Josh Antunovich
Job Title: Laboratory Director
Date: 01/17/2024

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 01/17/2024

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 approval of the laboratory.

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)

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Cannabinoid Analysis

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

†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: 6.4440 mg/unit

Total THC (Δ^9-THC+0.877*THCa)

TOTAL CBD: 553.320 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 596.700 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + 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

TOTAL CBG: 5.040 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 22.860 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 3.780 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 01/11/2024

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	*0.004 / 0.011*	*±0.1147*	3.074	0.3074
CBC	*0.003 / 0.010*	*±0.0041*	0.127	0.0127
Δ^9-THC	*0.0006 / 0.0053*	*±0.00197*	0.0358	0.00358
CBN	*0.001 / 0.007*	*±0.0008*	0.029	0.0029
CBG	*0.002 / 0.006*	*±0.0014*	0.028	0.0028
CBDV	*0.002 / 0.012*	*±0.0009*	0.021	0.0021
CBDa	*0.001 / 0.026*	*N/A*	<LOQ	<LOQ
Δ^8-THC	*0.01 / 0.02*	*N/A*	ND	ND
THCa	*0.0003 / 0.0019*	*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
CBCa	*0.001 / 0.015*	*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-iso-THC†	*0.025 / 0.084*	*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
exo-THC†	*0.028 / 0.093*	*N/A*	ND	ND
SUM OF CANNABINOIDS			3.315 mg/g	0.3315%

Unit Mass: 180 grams per Unit / Serving Size: 2 grams per Serving

Δ^9-THC per Unit	6.4440 mg/unit
Δ^9-THC per Serving	0.0716 mg/serving
Total THC per Unit	6.4440 mg/unit
Total THC per Serving	0.0716 mg/serving
CBD per Unit	553.320 mg/unit
CBD per Serving	6.148 mg/serving
Total CBD per Unit	553.320 mg/unit
Total CBD per Serving	6.148 mg/serving
Sum of Cannabinoids per Unit	596.700 mg/unit
Sum of Cannabinoids per Serving	6.630 mg/serving
Total Cannabinoids per Unit	596.700 mg/unit
Total Cannabinoids per Serving	6.630 mg/serving

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MOISTURE TEST RESULT

7.9%

Tested 01/14/2024

Method: QSP 1224 - Loss on Drying (Moisture)

Cannabinoid Analysis *Continued*

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Terpenoid Analysis

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

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

1 Borneol
A monoterpenoid alcohol with a fragrance that can be described as fresh, piney and woody. Found in forskohlii, rosemary, coriander, Scotch pine, black-jack, ginger, oregano, savory, feverfew, rose gum, Aztec marigold, pennyroyal, sakhalin fir...etc.

2 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 CB_2 receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

3 Nerolidol
A sesquiterpene alcohol with a fragrance that can be described as floral, citrusy, waxy, herbal and woody. Found in bitter orange, ginger, lavender, jasmine, tea tree, lemongrass, lady of the night...etc.

TERPENOID TEST RESULTS - 01/11/2024

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Borneol	*0.005 / 0.016*	*N/A*	<LOQ	<LOQ
β-Caryophyllene	*0.004 / 0.012*	*N/A*	<LOQ	<LOQ
Nerolidol	*0.006 / 0.019*	*N/A*	<LOQ	<LOQ
Guaiol	*0.009 / 0.030*	*N/A*	<LOQ	<LOQ
α-Bisabolol	*0.008 / 0.026*	*N/A*	<LOQ	<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
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
Caryophyllene Oxide	*0.010 / 0.033*	*N/A*	ND	ND
Cedrol	*0.008 / 0.027*	*N/A*	ND	ND
TOTAL TERPENOIDS			<LOQ	<LOQ

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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 - 01/12/2024 **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
Captan	*0.045 / 0.135*	*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
Chlordane*	*0.010 / 0.032*	*N/A*	ND
Chlorfenapyr*	*0.005 / 0.015*	*N/A*	ND
Chlormequat chloride	*0.022 / 0.066*	*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

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 01/12/2024 *continued* **ND**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Ethoprophos	*0.003 / 0.009*	*N/A*	ND
Etofenprox	*0.014 / 0.042*	*N/A*	ND
Etoxazole	*0.007 / 0.020*	*N/A*	ND
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

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 01/12/2024 *continued* **ND**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Propiconazole	*0.027 / 0.080*	*N/A*	ND
Propoxur	*0.003 / 0.008*	*N/A*	ND
Pyraclostrobin	*0.003 / 0.010*	*N/A*	ND
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 - 01/12/2024 **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

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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 Butanes = n-Butane + 2-Methylpropane (Isobutane)
Total Pentanes = n-Pentane + 2-Methylbutane (Isopentane)
Total Hexanes = n-Hexane + 2,2-Dimethylbutane (Neohexane) + 2,3-Dimethylbutane / 2-Methylpentane (Isohexane) + 3-Methylpentane
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) + Ethylbenzene

RESIDUAL SOLVENTS TEST RESULTS - 01/13/2024 **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
2-Methylbutane (Isopentane)	*0.310 / 1.035*	*N/A*	ND
2,2-Dimethylpropane (Neopentane)	*0.035 / 0.117*	*N/A*	ND
n-Pentane	*0.310 / 1.033*	*N/A*	ND
Total Pentanes			ND
2,2-Dimethylbutane (Neohexane)	*9.831 / 32.77*	*N/A*	ND
2,3-Dimethylbutane / 2-Methylpentane	*0.381 / 1.271*	*N/A*	ND
3-Methylpentane	*0.109 / 0.365*	*N/A*	ND
n-Hexane	*0.110 / 0.366*	*N/A*	ND
Total Hexanes			ND
Cyclohexane	*0.357 / 1.190*	*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
Cycloheptane	*0.597 / 1.989*	*N/A*	ND
Benzene	*0.089 / 0.295*	*N/A*	ND
Toluene	*0.115 / 0.382*	*N/A*	ND
Cumene	*0.180 / 0.600*	*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
Ethylbenzene	*0.370 / 1.233*	*N/A*	ND
Total Xylenes			ND
Methanol	*53.92 / 163.4*	*N/A*	ND
Ethanol	*8.984 / 27.23*	*N/A*	ND
1-Propanol	*1.540 / 5.133*	*N/A*	ND
2-Propanol (Isopropyl Alcohol)	*8.421 / 25.52*	*N/A*	ND

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Residual Solvents Analysis
Continued

RESIDUAL SOLVENTS TEST RESULTS - 01/13/2024 *continued* **ND**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
1-Butanol	*0.475 / 1.582*	*N/A*	ND
2-Butanol	*7.248 / 24.16*	*N/A*	ND
1-Pentanol	*1.461 / 4.869*	*N/A*	ND
Acetone	*10.59 / 32.08*	*N/A*	ND
2-Butanone	*0.169 / 0.564*	*N/A*	ND
Tetrahydrofuran	*0.622 / 2.075*	*N/A*	ND
Ethyl Ether	*0.197 / 0.658*	*N/A*	ND
Ethylene Glycol	*3.803 / 12.68*	*N/A*	ND
2-Ethoxyethanol	*1.235 / 4.118*	*N/A*	ND
1,2-Dimethoxyethane	*2.116 / 7.052*	*N/A*	ND
1,4-Dioxane	*0.468 / 1.558*	*N/A*	ND
Ethylene Oxide	*0.253 / 0.844*	*N/A*	ND
Ethyl Acetate	*1.123 / 3.745*	*N/A*	ND
Isopropyl Acetate	*0.347 / 1.158*	*N/A*	ND
Chloroform	*0.251 / 0.838*	*N/A*	ND
Dichloromethane (Methylene Chloride)	*2.651 / 8.838*	*N/A*	ND
Trichloroethylene	*0.299 / 0.996*	*N/A*	ND
1,2-Dichloroethane	*0.162 / 0.541*	*N/A*	ND
1,1-Dichloroethene	*0.185 / 0.616*	*N/A*	ND
1,2-Dichloroethene	*0.428 / 1.427*	*N/A*	ND
Sulfolane	*47.66 / 158.9*	*N/A*	ND
Dimethyl Sulfoxide	*6.168 / 20.56*	*N/A*	ND
Acetonitrile	*1.595 / 4.833*	*N/A*	ND
Pyridine	*0.407 / 1.355*	*N/A*	ND
N,N-Dimethylacetamide	*0.127 / 0.422*	*N/A*	ND
N,N-Dimethylformamide	*0.946 / 3.153*	*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 - 01/14/2024 **DETECTED**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Arsenic	*0.02 / 0.1*	*±>0.06*	>2.0
Boron	*0.21 / 0.64*	*±0.523*	9.24
Cadmium	*0.02 / 0.05*	*±0.002*	0.08
Chromium	*0.12 / 0.35*	*N/A*	<LOQ
Cobalt	*0.10 / 0.30*	*N/A*	<LOQ
Copper	*0.14 / 0.44*	*±1.335*	9.27
Lead	*0.04 / 0.1*	*N/A*	<LOQ
Lithium	*0.10 / 0.31*	*N/A*	ND
Manganese	*0.13 / 0.40*	*±1.129*	33.79
Mercury	*0.002 / 0.01*	*N/A*	<LOQ

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Heavy Metals Analysis *Continued*

HEAVY METALS TEST RESULTS - 01/14/2024 *continued* **DETECTED**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Molybdenum	*0.15 / 0.44*	*±0.014*	**0.67**
Nickel	*0.13 / 0.39*	*±0.023*	**0.82**
Selenium	*0.5 / 1.5*	*N/A*	**ND**
Silver	*0.15 / 0.47*	*N/A*	**ND**
Sulfur	*78 / 235*	*±78.9*	**2759**
Titanium	*0.12 / 0.38*	*±0.060*	**1.69**
Tungsten	*0.10 / 0.32*	*N/A*	**ND**
Zinc	*0.8 / 2.5*	*±3.74*	**28.5**

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) - 01/16/2024 **DETECTED**

COMPOUND	RESULT (cfu/g)
Shiga toxin-producing *Escherichia coli*	**ND**
Salmonella spp.	**ND**
Aspergillus fumigatus	**ND**
Aspergillus flavus	**ND**
Aspergillus niger	**ND**
Aspergillus terreus	**ND**
Candida albicans	**ND**
Campylobacter spp.	**ND**
Yersinia spp.	**ND**
Listeria monocytogenes	**ND**
Pseudomonas aeruginosa	**Detected**
Bile-Tolerant Gram-Negative Bacteria	**20348.0**
Staphylococcus aureus	**ND**

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

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

MICROBIOLOGY TEST RESULTS (PLATING) - 01/16/2024 **DETECTED**

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	**7700.0**
Total Yeast and Mold	**ND**
Total Enterobacteriaceae	**ND**
Escherichia coli	**ND**
Coliforms	**ND**

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Foreign Material Analysis

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

Method: QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

FOREIGN MATERIAL TEST RESULTS - 01/11/2024 PASS

COMPOUND	ACTION LIMIT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	*>25%*	PASS
Total Sample Area Covered by Mold	*>25%*	PASS
Total Sample Area Covered by an Imbedded Foreign Material	*>25%*	PASS
Insect Fragment Count	*> 1 per 3 grams*	PASS
Hair Count	*> 1 per 3 grams*	PASS
Mammalian Excreta Count	*> 1 per 3 grams*	PASS

Water Activity Analysis

Method: QSP 1227 - Analysis of Water Activity in Cannabis and Cannabis Products

WATER ACTIVITY TEST RESULTS - 01/13/2024 DETECTED

COMPOUND	LOD/LOQ (Aw)	MEASUREMENT UNCERTAINTY (Aw)	RESULT (Aw)
Water Activity	*0.030 / 0.15*	*±0.021*	0.44

Vitamin E Analysis

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

Method: QSP 6793 - Analysis of Vitamin E by HPLC-DAD

Technical Support. For questions and technical support regarding a failed result, please contact your SC Labs representative.

VITAMIN E TEST RESULTS - 01/17/2024 DETECTED

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β-Tocopherol / γ-Tocopherol*	*0.093 / 0.281*	*±0.0268*	1.167	0.1167
δ-Tocopherol	*0.061 / 0.183*	*±0.0166*	0.605	0.0605
α-Tocopherol	*0.069 / 0.209*	*±0.0019*	0.276	0.0276
Tocopheryl Acetate	*0.047 / 0.143*	*N/A*	ND	ND

*beta-Tocopherol / gamma-Tocopherol reported as a sum

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Hemp Quality Assurance Testing
CERTIFICATE OF ANALYSIS

DATE ISSUED 01/17/2024

SAMPLE NAME: GREEN GRUFF EASE Joint & Hip Plus CBD - Bag | 24 Soft Chews

Infused, Hemp

CULTIVATOR / MANUFACTURER

Business Name:
License Number:
Address:

DISTRIBUTOR / TESTED FOR

Business Name: GREEN GRUFF USA INC
License Number:
Address:

SAMPLE DETAIL

Batch Number: 3255896
Sample ID: 240112N021

Date Collected: 01/12/2024
Date Received: 01/12/2024
Batch Size:
Sample Size: 1.0 units
Unit Mass: 48 grams per Unit
Serving Size: 2 grams per Serving



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

CALCULATED USING DRY-WEIGHT

Total THC: 1.7664 mg/unit

Total CBD: 147.648 mg/unit

Sum of Cannabinoids: 158.784 mg/unit

Total Cannabinoids: 158.784 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 + exo-THC + Δ^8-THCV + Δ^8-iso-THC + 9S-HHC + 9R-HHC + Δ^{10}-THC + Δ^9-THC Acetate
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 + exo-THC + Δ^8-THCV + Δ^8-iso-THC + 9S-HHC + 9R-HHC + Δ^{10}-THC + Δ^9-THC Acetate

Moisture: 8.1%

TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

Total Terpenoids: <LOQ

β-Caryophyllene <LOQ
Guaiol <LOQ

SAFETY ANALYSIS - SUMMARY

Pesticides: ND
Mycotoxins: ND
Residual Solvents: DETECTED
Heavy Metals: DETECTED
Microbiology (PCR): DETECTED
Microbiology (Plating): DETECTED
Foreign Material: PASS
Water Activity: DETECTED
Vitamin E: DETECTED

LQC verified by: Kelsey Cochran
Job Title: Laboratory Technician I
Date: 01/17/2024

Approved by: Josh Wurzer
Job Title: Chief Compliance Officer
Date: 01/17/2024

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 approval of the laboratory.

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)

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Cannabinoid Analysis

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

†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: 1.7664 mg/unit

Total THC (Δ^9-THC+0.877*THCa)

TOTAL CBD: 147.648 mg/unit

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 158.784 mg/unit

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + 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

TOTAL CBG: 1.200 mg/unit

Total CBG (CBG+0.877*CBGa)

TOTAL THCV: ND

Total THCV (THCV+0.877*THCVa)

TOTAL CBC: 6.192 mg/unit

Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.720 mg/unit

Total CBDV (CBDV+0.877*CBDVa)

CANNABINOID TEST RESULTS - 01/16/2024

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	*0.004 / 0.011*	*±0.1147*	3.076	0.3076
CBC	*0.003 / 0.010*	*±0.0042*	0.129	0.0129
Δ^9-THC	*0.0006 / 0.0053*	*±0.00202*	0.0368	0.00368
CBN	*0.001 / 0.007*	*±0.0007*	0.026	0.0026
CBG	*0.002 / 0.006*	*±0.0012*	0.025	0.0025
CBDV	*0.002 / 0.012*	*±0.0006*	0.015	0.0015
CBDa	*0.001 / 0.026*	*N/A*	<LOQ	<LOQ
Δ^8-THC	*0.01 / 0.02*	*N/A*	ND	ND
THCa	*0.0003 / 0.0019*	*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
CBCa	*0.001 / 0.015*	*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-iso-THC†	*0.025 / 0.084*	*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
exo-THC†	*0.028 / 0.093*	*N/A*	ND	ND
SUM OF CANNABINOIDS			3.308 mg/g	0.3308%

Unit Mass: 48 grams per Unit / Serving Size: 2 grams per Serving

Δ^9-THC per Unit	1.7664 mg/unit
Δ^9-THC per Serving	0.0736 mg/serving
Total THC per Unit	1.7664 mg/unit
Total THC per Serving	0.0736 mg/serving
CBD per Unit	147.648 mg/unit
CBD per Serving	6.152 mg/serving
Total CBD per Unit	147.648 mg/unit
Total CBD per Serving	6.152 mg/serving
Sum of Cannabinoids per Unit	158.784 mg/unit
Sum of Cannabinoids per Serving	6.616 mg/serving
Total Cannabinoids per Unit	158.784 mg/unit
Total Cannabinoids per Serving	6.616 mg/serving

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MOISTURE TEST RESULT

8.1%

Tested 01/14/2024

Method: QSP 1224 - Loss on Drying (Moisture)

Cannabinoid Analysis *Continued*

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Terpenoid Analysis

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

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

1 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 CB_2 receptor agonist. Found in black pepper, clove, hops, rosemary, black-jack, perilla, spicebush, Indian pennywort, celery, frankincense, vitex, parsley, marigold, tamarind...etc.

2 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.

TERPENOID TEST RESULTS - 01/15/2024

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β-Caryophyllene	*0.004 / 0.012*	*N/A*	<LOQ	<LOQ
Guaiol	*0.009 / 0.030*	*N/A*	<LOQ	<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
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
α-Bisabolol	*0.008 / 0.026*	*N/A*	ND	ND
TOTAL TERPENOIDS			<LOQ	<LOQ

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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 - 01/16/2024 **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
Captan	*0.045 / 0.135*	*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
Chlordane*	*0.010 / 0.032*	*N/A*	ND
Chlorfenapyr*	*0.005 / 0.015*	*N/A*	ND
Chlormequat chloride	*0.022 / 0.066*	*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

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 01/16/2024 *continued* **ND**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Ethoprophos	*0.003 / 0.009*	*N/A*	ND
Etofenprox	*0.014 / 0.042*	*N/A*	ND
Etoxazole	*0.007 / 0.020*	*N/A*	ND
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

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Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 01/16/2024 *continued* **ND**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Propiconazole	*0.027 / 0.080*	*N/A*	ND
Propoxur	*0.003 / 0.008*	*N/A*	ND
Pyraclostrobin	*0.003 / 0.010*	*N/A*	ND
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 - 01/16/2024 **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

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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 Butanes = n-Butane + 2-Methylpropane (Isobutane)
Total Pentanes = n-Pentane + 2-Methylbutane (Isopentane)
Total Hexanes = n-Hexane + 2,2-Dimethylbutane (Neohexane) + 2,3-Dimethylbutane / 2-Methylpentane (Isohexane) + 3-Methylpentane
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) + Ethylbenzene

RESIDUAL SOLVENTS TEST RESULTS - 01/15/2024 **DETECTED**

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*	*±0.0029*	0.071
Total Butanes			0.071
2-Methylbutane (Isopentane)	*0.310 / 1.035*	*N/A*	ND
2,2-Dimethylpropane (Neopentane)	*0.035 / 0.117*	*N/A*	ND
n-Pentane	*0.310 / 1.033*	*N/A*	ND
Total Pentanes			ND
2,2-Dimethylbutane (Neohexane)	*9.831 / 32.77*	*N/A*	ND
2,3-Dimethylbutane / 2-Methylpentane	*0.381 / 1.271*	*N/A*	ND
3-Methylpentane	*0.109 / 0.365*	*N/A*	ND
n-Hexane	*0.110 / 0.366*	*N/A*	ND
Total Hexanes			ND
Cyclohexane	*0.357 / 1.190*	*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
Cycloheptane	*0.597 / 1.989*	*N/A*	ND
Benzene	*0.089 / 0.295*	*N/A*	ND
Toluene	*0.115 / 0.382*	*N/A*	ND
Cumene	*0.180 / 0.600*	*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
Ethylbenzene	*0.370 / 1.233*	*N/A*	<LOQ
Total Xylenes			<LOQ
Methanol	*53.92 / 163.4*	*N/A*	ND
Ethanol	*8.984 / 27.23*	*N/A*	ND
1-Propanol	*1.540 / 5.133*	*N/A*	ND
2-Propanol (Isopropyl Alcohol)	*8.421 / 25.52*	*N/A*	ND

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Residual Solvents Analysis
Continued

RESIDUAL SOLVENTS TEST RESULTS - 01/15/2024 *continued* **DETECTED**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
1-Butanol	*0.475 / 1.582*	*N/A*	ND
2-Butanol	*7.248 / 24.16*	*N/A*	ND
1-Pentanol	*1.461 / 4.869*	*N/A*	ND
Acetone	*10.59 / 32.08*	*N/A*	ND
2-Butanone	*0.169 / 0.564*	*N/A*	ND
Tetrahydrofuran	*0.622 / 2.075*	*N/A*	ND
Ethyl Ether	*0.197 / 0.658*	*N/A*	ND
Ethylene Glycol	*3.803 / 12.68*	*N/A*	ND
2-Ethoxyethanol	*1.235 / 4.118*	*N/A*	ND
1,2-Dimethoxyethane	*2.116 / 7.052*	*N/A*	ND
1,4-Dioxane	*0.468 / 1.558*	*N/A*	ND
Ethylene Oxide	*0.253 / 0.844*	*N/A*	ND
Ethyl Acetate	*1.123 / 3.745*	*N/A*	ND
Isopropyl Acetate	*0.347 / 1.158*	*N/A*	ND
Chloroform	*0.251 / 0.838*	*N/A*	ND
Dichloromethane (Methylene Chloride)	*2.651 / 8.838*	*N/A*	ND
Trichloroethylene	*0.299 / 0.996*	*N/A*	ND
1,2-Dichloroethane	*0.162 / 0.541*	*N/A*	ND
1,1-Dichloroethene	*0.185 / 0.616*	*N/A*	ND
1,2-Dichloroethene	*0.428 / 1.427*	*N/A*	ND
Sulfolane	*47.66 / 158.9*	*N/A*	ND
Dimethyl Sulfoxide	*6.168 / 20.56*	*N/A*	ND
Acetonitrile	*1.595 / 4.833*	*N/A*	ND
Pyridine	*0.407 / 1.355*	*N/A*	ND
N,N-Dimethylacetamide	*0.127 / 0.422*	*N/A*	ND
N,N-Dimethylformamide	*0.946 / 3.153*	*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 - 01/14/2024 **DETECTED**

COMPOUND	LOD/LOQ (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)
Arsenic	*0.02 / 0.1*	*±0.05*	1.7
Cadmium	*0.02 / 0.05*	*±0.002*	0.07
Lead	*0.04 / 0.1*	*N/A*	<LOQ
Mercury	*0.002 / 0.01*	*N/A*	<LOQ

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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

MICROBIOLOGY TEST RESULTS (PCR) - 01/17/2024 **DETECTED**

COMPOUND	RESULT (cfu/g)
Shiga toxin-producing *Escherichia coli*	ND
Salmonella spp.	ND
Aspergillus fumigatus	ND
Aspergillus flavus	ND
Aspergillus niger	ND
Aspergillus terreus	ND
Candida albicans	ND
Campylobacter spp.	ND
Yersinia spp.	ND
Listeria monocytogenes	ND
Pseudomonas aeruginosa	Detected
Bile-Tolerant Gram-Negative Bacteria	6817.0
Staphylococcus aureus	ND

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

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

MICROBIOLOGY TEST RESULTS (PLATING) - 01/17/2024 **DETECTED**

COMPOUND	RESULT (cfu/g)
Total Aerobic Bacteria	10700.0
Total Yeast and Mold	ND
Total Enterobacteriaceae	ND
Escherichia coli	ND
Coliforms	ND

Foreign Material Analysis

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta.

Method: QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

FOREIGN MATERIAL TEST RESULTS - 01/13/2024 PASS

COMPOUND	ACTION LIMIT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	*>25%*	PASS
Total Sample Area Covered by Mold	*>25%*	PASS
Total Sample Area Covered by an Imbedded Foreign Material	*>25%*	PASS
Insect Fragment Count	*> 1 per 3 grams*	PASS
Hair Count	*> 1 per 3 grams*	PASS
Mammalian Excreta Count	*> 1 per 3 grams*	PASS

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Water Activity Analysis

Method: QSP 1227 - Analysis of Water Activity in Cannabis and Cannabis Products

WATER ACTIVITY TEST RESULTS - 01/13/2024 **DETECTED**

COMPOUND	LOD/LOQ (Aw)	MEASUREMENT UNCERTAINTY (Aw)	RESULT (Aw)
Water Activity	*0.030 / 0.15*	*±0.021*	**0.43**

Vitamin E Analysis

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

Method: QSP 6793 - Analysis of Vitamin E by HPLC-DAD

Technical Support. For questions and technical support regarding a failed result, please contact your SC Labs representative.

VITAMIN E TEST RESULTS - 01/17/2024 **DETECTED**

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β-Tocopherol / γ-Tocopherol*	*0.093 / 0.281*	*±0.0250*	**1.086**	**0.1086**
δ-Tocopherol	*0.061 / 0.183*	*±0.0151*	**0.552**	**0.0552**
α-Tocopherol	*0.069 / 0.209*	*±0.0019*	**0.279**	**0.0279**
Tocopheryl Acetate	*0.047 / 0.143*	*N/A*	**ND**	**ND**

*beta-Tocopherol / gamma-Tocopherol reported as a sum

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