

Hemp Quality Assurance Testing CERTIFICATE OF ANALYSIS

DATE ISSUED 11/17/2022

SAMPLE NAME: Broad Spectrum Extract

Concentrate, Product Inhalable

CULTIVATOR / MANUFACTURER

Business Name: License Number: Address:

DISTRIBUTOR / TESTED FOR

Business Name: Colorado Botanicals License Number: Address:

SAMPLE DETAIL

Batch Number: BSX113 Sample ID: 221104M013 Date Collected: 11/04/2022 Date Received: 11/04/2022 Batch Size: Sample Size: Unit Mass: Serving Size:



Scan QR code to verify authenticity of results.

CANNABINOID ANALYSIS - SUMMARY

Total THC: Not Detected	Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:	
Total CBD: 88.118%	Total THC = Δ^9 -THC + (THCa (0.877)) Total CBD = CBD + (CBDa (0.877)) Sum of Cannabinoids = Δ^9 -THC + THCa + CBD + CBDa + CBG + CBGa +	
Sum of Cannabinoids: 96.6% Total Cannabinoids: 96.60%	Sum of Cannabinoids = Δ^{-1} HC + 1HCa + CBD + CBD + CBC + CBCa + CBCa + CBCa + CBCa + CBCA + CBC + CBCA + CBC + CBCA +	
	MARY 39 TESTED, TOP 3 HIGHLIGHTED	
Total Terpenoids: 1.2916%	β-Caryophyllene 6.044 mg/g α-Humulene 2.417 mg/g Guaiol 1.139 mg/g	
SAFETY ANALYSIS - SUMMAR	,	

Pesticides: **PASS**

Residual Solvents: **PASS**

Heavy Metals: **PASS**

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

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

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

References: limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

Approved by: Josh Wurze Job Title: President Date: 11/17/2022

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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: Not Detected

Total THC (Δ^9 -THC+0.877*THCa)

TOTAL CBD: 88.118%

Total CBD (CBD+0.877*CBDa)

TOTAL CANNABINOIDS: 96.60%

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

TOTAL CBG: 5.58%

Total CBG (CBG+0.877*CBGa)

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

TOTAL CBC: 0.35% Total CBC (CBC+0.877*CBCa)

TOTAL CBDV: 0.063%

Total CBDV (CBDV+0.877*CBDVa)

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

CANNABINOID TEST RESULTS - 11/07/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)		
CBD	0.07/0.29	±31.722	881.18	88.118
CBG	0.06/0.19	±1.713	55.80	5.580
CBN	0.1/0.3	±1.27	24.9	2.49
CBC	0.2/0.5	±0.08	3.5	0.35
CBDV	0.04/0.15	±0.021	0.63	0.063
∆ ⁹ -THC	0.06/0.26	N/A	ND	ND
∆ ⁸ -THC	0.1/0.4	N/A	ND	ND
THCa	0.05/0.14	N/A	ND	ND
THCV	0.1/0.2	N/A	ND	ND
THCVa	0.07/0.20	N/A	ND	ND
CBDa	0.02/0.19	N/A	ND	ND
CBDVa	0.03/0.53	N/A	ND	ND
CBGa	0.1/0.2	N/A	ND	ND
CBL	0.06/0.24	N/A	ND	ND
CBCa	0.07/0.28	N/A	ND	ND
SUM OF CANNA	BINOIDS		966.0 mg/g	96.6%

TERPENOID TEST RESULTS - 11/07/2022

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
β -Caryophyllene	0.004/0.012	±0.1674	6.044	0.6044
α-Humulene	0.009/0.029	±0.0604	2.417	0.2417
Guaiol	0.009/0.030	±0.0418	1.139	0.1139
Caryophyllene Oxide	0.010/0.033	±0.0381	1.063	0.1063
α-Bisabolol	0.008/0.026	±0.0406	0.979	0.0979
Terpineol	0.009/0.031	±0.0141	0.294	0.0294
Nerolidol	0.006/0.019	±0.0144	0.294	0.0294
Valencene	0.009/0.030	±0.0112	0.209	0.0209
trans- β -Farnesene	0.008/0.025	±0.0055	0.201	0.0201
Fenchol	0.010/0.034	±0.0039	0.131	0.0131
Borneol	0.005/0.016	±0.0040	0.121	0.0121
Citronellol	0.003/0.010	±0.0009	0.024	0.0024
Linalool	0.009/0.032	N/A	<loq< th=""><th><loq< th=""></loq<></th></loq<>	<loq< th=""></loq<>

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 α -Humulene

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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.

TERPENOID TEST RESULTS - 11/07/2022 continued

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Nerol	0.003/0.011	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
Geraniol	0.002/0.007	N/A	<loq< td=""><td><loq< td=""></loq<></td></loq<>	<loq< td=""></loq<>
α-Pinene	0.005 / 0.017	N/A	ND	ND
Camphene	0.005/0.015	N/A	ND	ND
Sabinene	0.004/0.014	N/A	ND	ND
β-Pinene	0.004/0.014	N/A	ND	ND
Myrcene	0.008 / 0.025	N/A	ND	ND
α -Phellandrene	0.006 / 0.020	N/A	ND	ND
Δ^3 -Carene	0.005 / 0.018	N/A	ND	ND
α-Terpinene	0.005 / 0.017	N/A	ND	ND
p-Cymene	0.005 / 0.016	N/A	ND	ND
Limonene	0.005 / 0.016	N/A	ND	ND
Eucalyptol	0.006 / 0.018	N/A	ND	ND
β-Ocimene	0.006 / 0.020	N/A	ND	ND
γ-Terpinene	0.006 / 0.018	N/A	ND	ND
Sabinene Hydrate	0.006 / 0.022	N/A	ND	ND
Fenchone	0.009/0.028	N/A	ND	ND
Terpinolene	0.008 / 0.026	N/A	ND	ND
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
Pulegone	0.003 / 0.011	N/A	ND	ND
Geranyl Acetate	0.004 / 0.014	N/A	ND	ND
α-Cedrene	0.005/0.016	N/A	ND	ND
Cedrol	0.008/0.027	N/A	ND	ND
TOTAL TERPENOIDS	;		12.916 mg/g	1.2916%

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.



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.

 $\label{eq:constraint} \begin{array}{l} \textbf{Method:} \ensuremath{\, \text{QSP 1212}}\xspace - Analysis of Pesticides and Mycotoxins by \\ \ensuremath{\text{LC-MS}}\xspace or \ensuremath{\, \text{QSP 1213}}\xspace - Analysis of Pesticides by \ensuremath{\, \text{GC-MS}}\xspace \\ \ensuremath{\, \text{C-MS}}\xspace or \ensuremath{\, \text{QSP 1212}}\xspace - Analysis of Pesticides by \ensuremath{\, \text{GC-MS}}\xspace \\ \ensuremath{\, \text{C-MS}}\xspace or \ensuremath{\, \text{QSP 1212}}\xspace - Analysis of Pesticides by \ensuremath{\, \text{GC-MS}}\xspace \\ \ensuremath{\, \text{C-MS}}\xspace or \ensuremath{\, \text{C-MS}}\xspace or \ensuremath{\, \text{QSP 1213}}\xspace - Analysis of \ensuremath{\, \text{Pesticides by GC-MS}}\xspace \\ \ensuremath{\, \text{C-MS}}\xspace or \ensuremath{\, \text{C-MS}}\xspace or \ensuremath{\, \text{QSP 1213}}\xspace or \ensuremath{\, \text{QSP 1213}}\xspace or \ensuremath{\, \text{C-MS}}\xspace or \ensuremath{\, \text{QSP 1213}}\xspace or \$

PESTICIDE TEST RESULTS - 11/10/2022 O PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Abamectin	0.03/0.10	0.1	N/A	ND	PASS
Azoxystrobin	0.02/0.07	0.1	N/A	ND	PASS
Bifenazate	0.01/0.04	0.1	N/A	ND	PASS
Bifenthrin	0.02/0.05	3	N/A	ND	PASS
Boscalid	0.03/0.09	0.1	N/A	ND	PASS
Chlorpyrifos	0.02/0.06	≥LOD	N/A	ND	PASS
Cypermethrin	0.11/0.32	1	N/A	ND	PASS
Etoxazole	0.02/0.06	0.1	N/A	ND	PASS
Hexythiazox	0.02/0.07	0.1	N/A	ND	PASS

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Pesticide Analysis Continued

PESTICIDE TEST RESULTS - 11/10/2022 continued OPASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Imidacloprid	0.04/0.11	5	N/A	ND	PASS
Malathion	0.03/0.09	0.5	N/A	ND	PASS
Myclobutanil	0.03/0.09	0.1	N/A	ND	PASS
Permethrin	0.04/0.12	0.5	N/A	ND	PASS
Piperonyl Butoxide	0.02/0.07	3	N/A	ND	PASS
Propiconazole	0.02/0.07	0.1	N/A	ND	PASS
Spiromesifen	0.02/0.05	0.1	N/A	ND	PASS
Tebuconazole	0.02/0.07	0.1	N/A	ND	PASS
Trifloxystrobin	0.03/0.08	0.1	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 - 11/15/2022 O PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Propane	0.234 / 0.781	5000	N/A	ND	PASS
2-Methylpropane (Isobutane)	0.052/0.173		N/A	ND	
n-Butane	0.019/0.063	5000	N/A	ND	PASS
Total Butanes				ND	
n-Pentane	0.310 / 1.033	5000	N/A	ND	PASS
n-Hexane	0.110/0.366	290	N/A	ND	PASS
2,2-Dimethylpentane (Neoheptane)	0.493 / 1.642		N/A	ND	
2,3-Dimethylpentane	1.009 / 3.365		N/A	ND	
2,4-Dimethylpentane	0.737 / 2 <mark>.458</mark>		N/A	ND	
3,3-Dimethylpentane	0.198 <mark>/0.660</mark>		N/A	ND	
2,2,3-Trimethylbutane (Triptane)	0.5 <mark>21 / 1.738</mark>		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	5000	N/A	ND	PASS
Total Heptanes				ND	
Benzene	0.089/0.295	1	N/A	ND	PASS
Toluene	0.115/0.382	890	N/A	ND	PASS
1,3-Dimethylbenzene / 1,4-Dimethylbenzene	0.451 / 1.502		N/A	ND	
1,2-Dimethylbenzene (o-Xylene)	0.387/1.289		N/A	ND	
Total Xylenes		2170		ND	PASS
Methanol	5.534 / 16.77	3000	N/A	ND	PASS
Ethanol	8.984 / 27.23	5000	N/A	ND	PASS
2-Propanol (Isopropyl Alcohol)	8.421 / 25.52	5000	N/A	ND	PASS

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Residual Solvents Analysis

RESIDUAL SOLVENTS TEST RESULTS - 11/15/2022 continued

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Acetone	9.510/28.82	5000	N/A	<loq< th=""><th>PASS</th></loq<>	PASS

Heavy Metals Analysis

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

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

HEAVY METALS TEST RESULTS - 11/10/2022 🔗 PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (μg/g)	RESULT (µg/g)	RESULT
Arsenic	0.02/0.1	0.2	N/A	ND	PASS
Cadmium	0.02/0.05	0.2	N/A	ND	PASS
Lead	0.04/0.1	0.5	N/A	ND	PASS
Mercury	0.002/0.01	0.1	N/A	ND	PASS

NOTES

COA amended, photo removed, Batch ID and Sample Name Updated