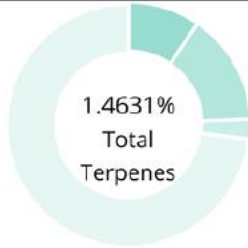


Broad Spectrum Hemp Extract

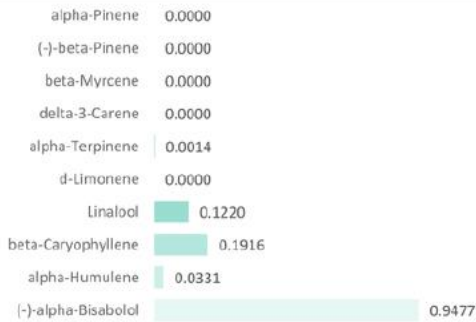
Batch ID:	CB20219	Test ID:	T000157929
Type:	Concentrate	Submitted:	08/09/2021 @ 01:33 PM
Test:	Terpenes	Started:	8/18/2021
Method:	TM22 (GC-MS)	Reported:	8/19/2021

TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.9477	9.477
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.1916	1.916
(-)-Caryophyllene Oxide	0.0459	0.459
p-Cymene	0.0009	0.009
Eucalyptol	0.0136	0.136
Geraniol	0.0157	0.157
alpha-Humulene	0.0331	0.331
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.1220	1.220
beta-Myrcene	0.0000	0.000
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0898	0.898
Ocimene	0.0000	0.000
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.0000	0.000
(-)-beta-Pinene	0.0000	0.000
alpha-Terpinene	0.0014	0.014
gamma-Terpinene	0.0014	0.014
Terpinolene	0.0000	0.000
	1.4631	14.631

PREDOMINANT TERPENES



NOTES:
N/A

FINAL APPROVAL

	Daniel Weidensaul 19-Aug-2021 5:08 PM		Ryan Weems 19-Aug-2021 5:10 PM
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PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited AZLA Certificate Number 4329.02





CERTIFICATE OF ANALYSIS
prepared for: Colorado Botanicals

Broad Spectrum Hemp Extract

Batch ID:	CB20219	Test ID:	T000157931
Type:	Concentrate	Submitted:	08/09/2021 @ 01:33 PM
Test:	Metals	Started:	8/17/2021
Method:	TM19 (ICP-MS)	Reported:	8/18/2021

HEAVY METALS


Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.045 - 4.48	ND
Cadmium	0.045 - 4.46	ND
Mercury	0.044 - 4.44	ND
Lead	0.041 - 4.14	ND

* ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL


Ryan Weems
18-Aug-2021
4:04 PM

PREPARED BY / DATE


Sam Smith
18-Aug-2021
4:15 PM

APPROVED BY / DATE

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CERTIFICATE OF ANALYSIS

Prepared for:

Broad Spectrum Hemp Extract

Colorado Botanicals

Table with 4 columns: Batch ID or Lot Number, Test, Reported, Matrix, Test ID, Started, USDA License, Status, Method, Received, Sampler ID.

PESTICIDE DETERMINATION

Table with 9 columns: Compound, LOQ (ppb), Result (ppb), Compound, LOQ (ppb), Result (ppb), Compound, LOQ (ppb), Result (ppb).

Signature of Sam Smith, 8/18/2021 1:39:00 PM

Signature of Taylor Brevik, 8/18/2021 1:46:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification
ppb = Parts per Billion

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods.





CERTIFICATE OF ANALYSIS

Prepared for:

Broad Spectrum Hemp Extract

Colorado Botanicals

Batch ID or Lot Number: **CB20219** Test: **Residual Solvents** Reported: **8/17/21**

Matrix: N/A Test ID: T000157932 Started: 8/16/21 USDA License: N/A

Status: N/A Methods: TM04 (GC-MS); Residual Solvents Received: 08/09/2021 @ 01:33 PM Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	85 - 1695	*ND	
Butanes (Isobutane, n-Butane)	161 - 3215	*ND	
Methanol	62 - 1230	*ND	
Pentane	90 - 1798	*ND	
Ethanol	98 - 1958	*ND	
Acetone	101 - 2016	*ND	
Isopropyl Alcohol	107 - 2145	*ND	
Hexane	6 - 125	*ND	
Ethyl Acetate	103 - 2050	*ND	
Benzene	0 - 4	*ND	
Heptanes	96 - 1925	1205	
Toluene	18 - 368	*ND	
Xylenes (m,p,o-Xylenes)	134 - 2681	*ND	


Taylor Brevik
17-Aug-21
1:37 PM

PREPARED BY / DATE


Daniel Weidensaul
17-Aug-21
1:42 PM

APPROVED BY / DATE

Definitions

* ND = None Detected (Defined by Dynamic Range of the method)

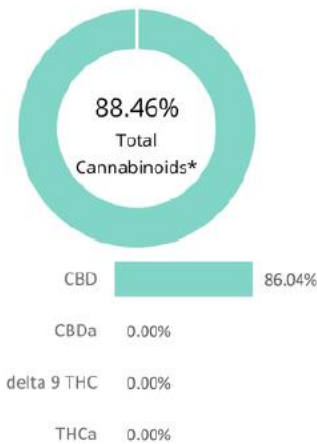
Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC.



Certificate #5219.02

Broad Spectrum Hemp Extract

Batch ID:	CB20219	Test ID:	T000157928
Type:	Concentrate	Submitted:	08/09/2021 @ 01:33 PM
Test:	Potency	Started:	8/19/2021
Method:	TM14 (HPLC-DAD)	Reported:	8/20/2021

CANNABINOID PROFILE


Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.13	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.14	ND	ND
Cannabidiolic acid (CBDA)	0.20	ND	ND
Cannabidiol (CBD)	0.20	86.04	860.4
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.15	ND	ND
Cannabinolic Acid (CBNA)	0.09	ND	ND
Cannabinol (CBN)	0.04	ND	ND
Cannabigerolic acid (CBGA)	0.13	ND	ND
Cannabigerol (CBG)	0.03	1.72	17.2
Tetrahydrocannabivarinic Acid (THCVA)	0.11	ND	ND
Tetrahydrocannabivarin (THCV)	0.03	ND	ND
Cannabivarinic Acid (CBDVA)	0.08	ND	ND
Cannabivarin (CBDV)	0.05	0.70	7.0
Cannabichromenic Acid (CBCA)	0.05	ND	ND
Cannabichromene (CBC)	0.05	ND	ND
Total Cannabinoids		88.46	884.6
Total Potential THC**		ND	ND
Total Potential CBD**		86.04	860.4

NOTES:

N/A

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

* Total Cannabinoids result reflects the absolute sum of all cannabinoids detected.

** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

$$\text{Total THC} = \text{THC} + (\text{THCa} \times 0.877)$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} \times 0.877)$$

ND = None Detected (Defined by Dynamic Range of the method)

FINAL APPROVAL

	Ryan Weems 20-Aug-2021 11:17 AM		Sam Smith 20-Aug-2021 11:28 AM
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PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



Supplemental Figure 1. Certificate of analysis for the broad-spectrum cannabidiol oil extract used. An analysis of CBD potency, quantities of terpenes, and the presence of metals/pesticides/residual solvents was performed by Botanacor Laboratories™ (Denver, CO, USA) on batch #CB20219 is shown above (100 mg/mL CBD, hemp extract, organic MCT oil, CO2 extracted, Colorado Botanicals, Denver, CO, USA).