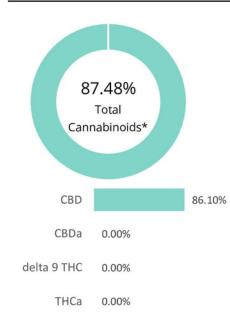


prepared for: Colorado Botanicals

Broad Spectrum Hemp Extract

Batch ID:	BSX111	Test ID:	T000175498
Туре:	Concentrate	Submitted:	11/23/2021 @ 09:05 AM
Test:	Potency	Started:	11/29/2021
Method:	TM14 (HPLC-DAD)	Reported:	11/30/2021

CANNABINOID PROFILE



Compound	LOQ (%)	Result (%)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.13	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.15	ND	ND
Cannabidiolic acid (CBDA)	0.15	ND	ND
Cannabidiol (CBD)	0.15	86.10	861.0
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.16	ND	ND
Cannabinolic Acid (CBNA)	0.09	ND	ND
Cannabinol (CBN)	0.04	ND	ND
Cannabigerolic acid (CBGA)	0.14	ND	ND
Cannabigerol (CBG)	0.03	1.19	11.9
Tetrahydrocannabivarinic Acid (THCVA)	0.11	ND	ND
Tetrahydrocannabivarin (THCV)	0.03	ND	ND
Cannabidivarinic Acid (CBDVA)	0.06	ND	ND
Cannabidivarin (CBDV)	0.04	0.19	1.9
Cannabichromenic Acid (CBCA)	0.05	ND	ND
Cannabichromene (CBC)	0.06	ND	ND
Total Cannabinoids		87.48	874.8
Total Potential THC**		ND	ND
Total Potential CBD**		86.10	861.0

NOTES:

N/A

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

Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa *(0.877))

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

FINAL APPROVAL

L Winternheimer

PREPARED BY / DATE

Karen Winternheime 30-Nov-2021 5:36 PM

Daniel Wardonsen

Daniel Weidensaul 30-Nov-2021 5:38 PM

APPROVED BY / DATE

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^{*} 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.

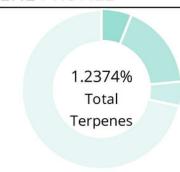


prepared for: Colorado Botanicals

Broad Spectrum Hemp Extract

Batch ID:	BSX111	Test ID:	T000175499
Туре:	Concentrate	Submitted:	11/23/2021 @ 09:05 AM
Test:	Terpenes	Started:	12/2/2021
Method:	TM22 (GC-MS)	Reported:	12/3/2021

TERPENE PROFILE



PREDOMINANT	TERPENES
--------------------	-----------------

alpha-Pinene	0.0000	
(-)-beta-Pinene	0.0000	
beta-Myrcene	0.0000	
delta-3-Carene	0.0000	
alpha-Terpinene	0.0000	
d-Limonene	0.0000	
Linalool	0.0718	
beta-Caryophyllene	0.2061	
alpha-Humulene	0.0578	
(-)-alpha-Bisabolol		

Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.8472	8.472
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.2061	2.061
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0000	0.000
Geraniol	0.0000	0.000
alpha-Humulene	0.0578	0.578
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0000	0.000
Linalool	0.0718	0.718
beta-Myrcene	0.0000	0.000
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0545	0.545
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	0.0000	0.000
gamma-Terpinene	0.0000	0.000
Terpinolene	0.0000	0.000
	1.2374	12.374

NOTES:

N/A

FINAL APPROVAL



Daniel Weidensaul 3-Dec-2021 3:51 PM f his

lacob Miller 3-Dec-2021 3:55 PM

PREPARED BY / DATE APPROVED BY / DATE

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0.8472





Certificate #4329.02



Prepared for:

Broad Spectrum Hemp Extract

Colorado Botanicals

Batch ID or Lot Number: BSX111	Test: Pesticides	Reported: 12/2/21	
Matrix:	Test ID:	Started:	USDA License:
Concentrate	T000175500	12/1/21	N/A
Status:	Method:	Received:	Sampler ID:
N/A	TM17(LC-QQQ LC MS/MS):	11/23/2021 @ 09:05 AM	N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	39	ND	Fenoxycarb	43	ND	Paclobutrazol	48	ND
Acetamiprid	41	ND	Fipronil	50	ND	Permethrin	284	ND
Avermectin	339	ND	Flonicamid	48	ND	Phosmet	39	ND
Azoxystrobin	46	ND	Fludioxonil	316	ND	Prophos	312	ND
Bifenazate	41	ND	Hexythiazox	39	ND	Propoxur	44	ND
Boscalid	36	ND	Imazalil	283	ND	Pyridaben	290	ND
Carbaryl	41	ND	Imidacloprid	50	ND	Spinosad A	35	ND
Carbofuran	44	ND	Kresoxim-methyl	150	ND	Spinosad D	52	ND
Chlorantraniliprole	67	ND	Malathion	302	ND	Spiromesifen	290	ND
Chlorpyrifos	500	ND	Metalaxyl	44	ND	Spirotetramat	290	ND
Clofentezine	293	ND	Methiocarb	43	ND	Spiroxamine 1	19	ND
Diazinon	284	ND	Methomyl	42	ND	Spiroxamine 2	24	ND
Dichlorvos	293	ND	MGK 264 1	203	ND	Tebuconazole	306	ND
Dimethoate	42	ND	MGK 264 2	123	ND	Thiacloprid	41	ND
E-Fenpyroximate	280	ND	Myclobutanil	42	ND	Thiamethoxam	43	ND
Etofenprox	44	ND	Naled	47	ND	Trifloxystrobin	44	ND
Etoxazole	304	ND	Oxamyl	1500	ND			

L Winternheimer

Karen Winternheimer 12/2/2021

3:50:00 PM

Samantha Smill

Sam Smith 12/2/2021 3:57:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

LOQ = Limit of Quantification ppb = Parts per Billion

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Certificate #4329.02



Prepared for:

Broad Spectrum Hemp Extract

Colorado Botanicals

Batch ID or Lot Number: BSX111	Test: Metals	Reported: 11/29/21		
Matrix:	Test ID:	Started:	USDA License:	
Concentrate	T000175502	11/24/21	N/A	
Status:	Method:	Received:	Sampler ID:	_
N/A	TM19 (ICP-MS): Heavy Metals	11/23/2021 @ 09:05 AM	N/A	

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.045 - 4.52	ND	
Cadmium	0.045 - 4.53	ND	
Mercury	0.041 - 4.11	ND	
Lead	0.041 - 4.12	ND	

Samantha Smill

Sam Smith 29-Nov-21 10:23 AM

Myon News

Ryan Weems 29-Nov-21 10:25 AM

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Definitions

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

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Prepared for:

Broad Spectrum Hemp Extract

Colorado Botanicals

Batch ID or Lot Number: BSX111	Test: Residual Solvents	Reported: 11/30/21			
Matrix:	Test ID:	Started:	USDA License:		
N/A	T000175503	11/30/21	N/A		
Status:	Methods:	Received:	Sampler ID:	_	
N/A	TM04 (GC-MS): Residual Solven	ts 11/23/2021 @ 09:05 AM	N/A		

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	102 - 2040	*ND	
Butanes Isobutane, n-Butane)	202 - 4038	*ND	
Methanol	60 - 1198	*ND	
Pentane	83 - 1661	*ND	
Ethanol	85 - 1696	*ND	
Acetone	98 - 1958	*ND	
Isopropyl Alcohol	102 - 2042	*ND	
Hexane	6 - 118	*ND	
Ethyl Acetate	98 - 1962	*ND	
Benzene	0.2 - 3.9	*ND	
Heptanes	92 - 1848	*ND	
Toluene	18 - 357	*ND	
Xylenes (m.n.o-Xylenes)	129 - 2573	*ND	

Daniel Westoward

Daniel Weidensaul 30-Nov-21 7:54 PM

Myon News

Ryan Weems 30-Nov-21 8:02 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

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prepared for: COLORADO BOTANICALS

Broad Spectrum Hemp Extract

Batch ID:	BSX111	Test ID:	t000175501
Matrix:	Concentrate	Received:	11/23/2021 @ 09:05 AM
Test:	Microbial Contaminants	Started:	11/23/2021
Method:	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	Reported:	11/26/2021

MICROBIAL CONTAMINANTS

Contaminant	Method	LOD	LLOQ	ULOQ	Result
Total Aerobic Count*	TM-26 Culture Plating	10^2 CFU/g	10^3 CFU/g	1.5x10^5 CFU/g	None Detected
Total Coliforms*	TM-27 Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
Total Yeast and Molds*	TM-24 Culture Plating	10^1 CFU/g	10^2 CFU/g	1.5x10^4 CFU/g	None Detected
E. coli	TM-28 Culture Plating	1 CFU/g	NA	NA	Absent
E. coli (STEC)	TM-25 PCR	1 CFU/g	NA	NA	Absent
Salmonella	TM-25 PCR	1 CFU/g	NA	NA	Absent

^{*} Values recorded in scientific notation, a common microbial practice of expressing numbers that are too large to be conveniently written in decimal form.

10^2 = 100 CFU Examples:

10^3 = 1,000 CFU

10^4 = 10,000 CFU

10^5 = 100,000 CFU

Free from visual mold, mildew, and foreign matter

DEFINITIONS:

CFU/g = Colony Forming Units per Gram.

LOD = Limit of Detection

ULOQ = Upper Limit of Quantitation

LLOQ = Lower Limit of Quantitation

FINAL APPROVAL

Carly Bader 11/26/2021 2:00:00 PM

Courting Richards

APPROVED BY / DATE

Courtney Richards 11/26/2021 11:28:00 PM

PREPARED BY / DATE

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