

Prepared for:

Arbor Sleep Tincture

Arbor Hemp


Batch ID or Lot Number: 211014-2	Test: Potency	Reported: 11/15/21	Location: 2590 Welton Street Suite 200 PMB Denver, CO 80205
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Matrix: Concentrate	Test ID: T000175468	Started: 11/12/21	USDA License: N/A
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Status: N/A	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC (Colorado Panel)	Received: 11/09/2021 @ 01:15 PM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.002	0.008	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	0.004*	0.04*	
Cannabidiolic acid (CBDA)	0.021	0.055	ND	ND	
Cannabidiol (CBD)	0.021	0.053	2.252	22.52	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.016	0.057	ND	ND	
Cannabinolic Acid (CBNA)	0.009	0.033	ND	ND	
Cannabinol (CBN)	0.004	0.015	ND	ND	
Cannabigerolic acid (CBGA)	0.014	0.048	ND	ND	
Cannabigerol (CBG)	0.003	0.011	0.057	0.57	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.040	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.010	0.128	1.28	
Cannabidivarinic Acid (CBDVA)	0.009	0.023	ND	ND	
Cannabidivarin (CBDV)	0.005	0.013	0.412	4.12	
Cannabichromenic Acid (CBCA)	0.005	0.018	ND	ND	
Cannabichromene (CBC)	0.006	0.020	ND	ND	
Total Cannabinoids			2.853	28.53	
Total Potential THC**			0.004	0.04	
Total Potential CBD**			2.252	22.52	


Daniel Weidensaul
15-Nov-2021
02:25 PM


Sam Smith
15-Nov-21
2:32 PM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

* Indicates a value below the Limit of Quantitation (LOQ) and above the Limit of Detection (LOD).

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

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

Total CBD = CBD + (CBDA *(0.877))

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

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.



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Certificate #4329.02


Prepared for:

Arbor Sleep Tincture
Arbor Hemp

Batch ID or Lot Number: 211014-2	Test: Pesticides	Reported: 11/11/21	Location: 2590 Welton Street Suite 200 PMB 1C Denver, CO 80205
Matrix: Concentrate	Test ID: T000175469	Started: 11/10/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 11/09/2021 @ 01:15 PM	Sampler ID: N/A

PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	53	ND	Fenoxycarb	62	ND	Paclobutrazol	58	ND
Acetamiprid	54	ND	Fipronil	86	ND	Permethrin	380	ND
Avermectin	473	ND	Flonicamid	67	ND	Phosmet	58	ND
Azoxystrobin	59	ND	Fludioxonil	412	ND	Prophos	358	ND
Bifenazate	54	ND	Hexythiazox	50	ND	Propoxur	54	ND
Boscalid	70	ND	Imazalil	357	ND	Pyridaben	364	ND
Carbaryl	51	ND	Imidacloprid	58	ND	Spinosad A	45	ND
Carbofuran	53	ND	Kresoxim-methyl	150	ND	Spinosad D	65	ND
Chlorantraniliprole	70	ND	Malathion	363	ND	Spiromesifen	337	ND
Chlorpyrifos	500	ND	Metalaxyl	56	ND	Spirotetramat	388	ND
Clofentezine	355	ND	Methiocarb	55	ND	Spiroxamine 1	24	ND
Diazinon	359	ND	Methomyl	52	ND	Spiroxamine 2	32	ND
Dichlorvos	371	ND	MGK 264 1	200	ND	Tebuconazole	357	ND
Dimethoate	56	ND	MGK 264 2	148	ND	Thiacloprid	54	ND
E-Fenpyroximate	369	ND	Myclobutanil	54	ND	Thiamethoxam	57	ND
Etofenprox	55	ND	Naled	58	ND	Trifloxystrobin	54	ND
Etoxazole	379	ND	Oxamyl	1500	ND			


 Daniel Weidensaul
 11/11/2021
 12:07:00 PM


 Sam Smith
 11/11/2021
 12:15:00 PM

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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. 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.



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Prepared for:

Arbor Sleep Tincture
Arbor Hemp

Batch ID or Lot Number: 211014-2	Test: Residual Solvents	Reported: 11/15/21	Location: 2590 Welton Street Suite 200 PME Denver, CO 80205
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Matrix: N/A	Test ID: T000175472	Started: 11/15/21	USDA License: N/A
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Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 11/09/2021 @ 01:15 PM	Sampler ID: N/A
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RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	73 - 1455	*ND	
Butanes (Isobutane, n-Butane)	147 - 2937	*ND	
Methanol	56 - 1121	*ND	
Pentane	74 - 1489	*ND	
Ethanol	86 - 1712	*ND	
Acetone	85 - 1706	*ND	
Isopropyl Alcohol	102 - 2042	*ND	
Hexane	5 - 105	*ND	
Ethyl Acetate	90 - 1804	*ND	
Benzene	0.2 - 3.5	*ND	
Heptanes	82 - 1636	*ND	
Toluene	17 - 338	*ND	
Xylenes (m,p,o-Xylenes)	135 - 2705	*ND	


 Hannah Wright
 15-Nov-21
 4:02 PM

PREPARED BY / DATE


 Sam Smith
 15-Nov-21
 4:08 PM

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Definitions

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

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Prepared for:


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Batch ID or Lot Number: 211014-2	Test: Microbial Contaminants	Reported: 11/13/21	Location: 2590 Welton Street Suite 200 PMB Denver, CO 80205
Matrix: Finished Product	Test ID: T000175470	Started: 11/10/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 11/09/2021 @ 01:15 PM	Sampler ID: N/A

MICROBIAL CONTAMINANTS DETERMINATION

Contaminant	Method	LOD	LLOQ	ULOQ	Result	Notes
Total Aerobic Count*	TM-26, Culture Plating	10 ² CFU/g	10 ³ CFU/g	1.5x10 ⁵ CFU/g	None Detected	Free from visual mold, mildew, and foreign matter
Total Coliforms*	TM-27, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
Total Yeast and Mold*	TM-24, Culture Plating	10 ¹ CFU/g	10 ² CFU/g	1.5x10 ⁴ CFU/g	None Detected	
E. coli (STEC)	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	
Salmonella	TM-25, PCR	1 CFU/25 g	NA	NA	Absent	


 Robert Belfon
 11/13/2021
 5:24:00 PM


 Courtney Richards
 11/13/2021
 6:40:00 PM

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Definitions

LOD = Limit of Detection | LLOQ = Lower Limit of Quantitation | ULOQ = Upper Limit of Quantitation

 CFU/g = Colony Forming Units per Gram | STEC = Shiga Toxin-Producing *E. coli*

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

 Examples:
 10² = 100 CFU
 10³ = 1,000 CFU
 10⁴ = 10,000 CFU
 10⁵ = 100,000 CFU

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Batch ID or Lot Number: 211014-2	Test: Metals	Reported: 11/15/21	Location: 2590 Welton Street Suite 200 PMB Denver, CO 80205
Matrix: Unit Co	Test ID: T000175471	Started: 11/14/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals (Colorado Panel)	Received: 11/09/2021 @ 01:15 PM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.043 - 4.28	ND	
Cadmium	0.045 - 4.47	ND	
Mercury	0.044 - 4.38	ND	
Lead	0.044 - 4.39	ND	


 Daniel Weidensaul
 15-Nov-21
 5:47 PM


 Courtney Richards
 15-Nov-21
 6:44 PM

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Definitions

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

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Prepared for:

Arbor Sleep Tincture
Arbor Hemp


Batch ID or Lot Number: 211014-2	Test: Mycotoxins	Reported: 11/12/21	Location: 2590 Welton Street Suite 200 PME Denver, CO 80205
Matrix: Concentrate	Test ID: T000175473	Started: 11/11/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 11/09/2021 @ 01:15 PM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2.8 - 129.9	ND	N/A
Aflatoxin B1	1.1 - 33.1	ND	
Aflatoxin B2	1 - 33.3	ND	
Aflatoxin G1	1 - 33.2	ND	
Aflatoxin G2	0.9 - 32.4	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	


 Ryan Weems
 12-Nov-21
 1:31 PM

PREPARED BY / DATE


 Sam Smith
 12-Nov-21
 1:40 PM

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Definitions

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