

Prepared for:

Arbor Sleep Soft Gels

Arbor Hemp


Batch ID or Lot Number: 210729	Test: Potency	Reported: 11/15/21	Location: 2590 Welton Street Suite 200 PMB Denver, CO 80205
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Matrix: Concentrate	Test ID: T000175479	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	0.033	0.33	
Cannabidiolic acid (CBDA)	0.023	0.058	0.081	0.81	
Cannabidiol (CBD)	0.022	0.057	11.084	110.84	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.017	0.060	ND	ND	
Cannabinolic Acid (CBNA)	0.010	0.035	ND	ND	
Cannabinol (CBN)	0.005	0.016	0.012*	0.12*	
Cannabigerolic acid (CBGA)	0.015	0.051	ND	ND	
Cannabigerol (CBG)	0.003	0.012	0.245	2.45	
Tetrahydrocannabivarinic Acid (THCVA)	0.012	0.043	ND	ND	
Tetrahydrocannabivarin (THCV)	0.003	0.011	0.543	5.43	
Cannabidivarinic Acid (CBDVA)	0.010	0.024	0.024*	0.24*	
Cannabidivarin (CBDV)	0.005	0.013	1.986	19.86	
Cannabichromenic Acid (CBCA)	0.006	0.020	ND	ND	
Cannabichromene (CBC)	0.006	0.021	0.017*	0.17*	
Total Cannabinoids			14.025	140.25	
Total Potential THC**			0.033	0.33	
Total Potential CBD**			11.155	111.55	


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 Soft Gels
Arbor Hemp

Batch ID or Lot Number: 210729	Test: Pesticides	Reported: 11/11/21	Location: 2590 Welton Street Suite 200 PMB 1C Denver, CO 80205
Matrix: Concentrate	Test ID: T000175475	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 Soft Gels

Arbor Hemp

Batch ID or Lot Number: 210729	Test: Metals	Reported: 11/15/21	Location: 2590 Welton Street Suite 200 PMB Denver, CO 80205
Matrix: Unit Co	Test ID: T000175476	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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Arbor Sleep Soft Gels

Batch ID:	210729	Test ID:	T000175474
Matrix:	Finished Product	Received:	11/09/2021 @ 01:15 PM
Test:	Microbial Contaminants	Started:	11/10/2021
Method:	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	Reported:	11/13/2021

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
<i>E. coli</i>	TM-28 Culture Plating	1 CFU/g	NA	NA	Absent
<i>E. coli</i> (STEC)	TM-25 PCR	1 CFU/g	NA	NA	Absent
<i>Salmonella</i>	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.

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

NOTES:

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


 Robert Belfon
 11/13/2021
 5:29:00 PM

PREPARED BY / DATE


 Courtney Richards
 11/13/2021
 7:31:00 PM

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 4329.03. Testing associated with this certificate of analysis performed by an external ISO17025 accredited provider.



Certificate #4329.03


Prepared for:

Arbor Hemp
Arbor Sleep Soft Gels


Batch ID or Lot Number: 210729	Test: Mycotoxins	Reported: 11/15/21	Location: 2590 Welton Street Suite 200 PME Denver, CO 80205
Matrix: Concentrate	Test ID: T000175478	Started: 11/12/21	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	2.9 - 125	ND	N/A
Aflatoxin B1	1.1 - 32.1	ND	
Aflatoxin B2	0.7 - 32.6	ND	
Aflatoxin G1	1.1 - 31.6	ND	
Aflatoxin G2	1.4 - 31.9	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	


 Sam Smith
 15-Nov-21
 8:56 AM

PREPARED BY / DATE


 Alex Smith
 15-Nov-21
 3:37 PM

APPROVED BY / DATE

Definitions

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

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Prepared for:

Arbor Sleep Soft Gels

Arbor Hemp


Batch ID or Lot Number: **210729** Test: **Residual Solvents** Reported: **11/15/21** Location: 2590 Welton Street Suite 200 PMB Denver, CO 80205


Matrix: N/A Test ID: T000175477 Started: 11/15/21 USDA License: N/A

Status: N/A Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel) Received: 11/09/2021 @ 01:15 PM Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	64 - 1289	*ND	
Butanes (Isobutane, n-Butane)	130 - 2602	*ND	
Methanol	50 - 993	*ND	
Pentane	66 - 1319	*ND	
Ethanol	76 - 1516	*ND	
Acetone	76 - 1511	*ND	
Isopropyl Alcohol	90 - 1808	*ND	
Hexane	5 - 93	*ND	
Ethyl Acetate	80 - 1598	*ND	
Benzene	0.2 - 3.1	*ND	
Heptanes	72 - 1449	*ND	
Toluene	15 - 300	*ND	
Xylenes (m,p,o-Xylenes)	120 - 2396	*ND	

 Hannah Wright
15-Nov-21
4:02 PM

 Sam Smith
15-Nov-21
4:08 PM

PREPARED BY / DATE

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Definitions

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