botanacor

CERTIFICATE OF ANALYSIS

prepared for: Kansas Heritage Farms LLC
833 E 675th RD.
Lawrence, KS 66047

Nano Encapsulated CBG 2 and 2a

Batch ID:	2113101AAFS	**Test ID:**	T000143176
Type:	Solution	**Submitted:**	05/27/2021 @ 10:49 AM
Test:	Potency	**Started:**	5/27/2021
Method:	TM14	**Reported:**	6/1/2021

CANNABINOID PROFILE

ND
mg/mL
CBD

CBD	0.00%
CBDa	0.00%
delta 9 THC	0.00%
THCa	0.00%

Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.43	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.48	ND	ND
Cannabidiolic acid (CBDA)	0.60	ND	ND
Cannabidiol (CBD)	0.58	ND	ND
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.53	ND	ND
Cannabinolic Acid (CBNA)	0.30	ND	ND
Cannabinol (CBN)	0.14	ND	ND
Cannabigerolic acid (CBGA)	0.45	ND	ND
Cannabigerol (CBG)	0.11	20.86	20.6
Tetrahydrocannabivarinic Acid (THCVA)	0.38	ND	ND
Tetrahydrocannabivarin (THCV)	0.10	ND	ND
Cannabidivarinic Acid (CBDVA)	0.25	ND	ND
Cannabidivarin (CBDV)	0.14	ND	ND
Cannabichromenic Acid (CBCA)	0.17	ND	ND
Cannabichromene (CBC)	0.19	ND	ND
Total Cannabinoids		**20.86**	**20.6**
Total Potential THC**		ND	ND
Total Potential CBD**		ND	ND

% = % (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.
Total THC = THC + (THCa *(0.877)) and
Total CBD = CBD + (CBDa *(0.877))
ND = None Detected (Defined by Dynamic Range of the method)

NOTES:
Density = 1.010353g/mL

FINAL APPROVAL

Michele Gagnon
1-Jun-2021
12:53 PM
PREPARED BY / DATE

Daniel Weidensaul
1-Jun-2021
12:58 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 4329.02

ilac-MRA A2LA ACCREDITED
Certificate #4329.02

botanacor

CERTIFICATE OF ANALYSIS

prepared for: Kansas Heritage Farms LLC
833 E 675th RD.
Lawrence, KS 66047

Nano Encapsulated 31

Batch ID:	2113101AAFS	**Test ID:**	T000142852
Type:	Concentrate	**Submitted:**	05/25/2021 @ 09:02 AM
Test:	Pesticides	**Started:**	5/27/2021
Method:	TM17	**Reported:**	5/28/2021

PESTICIDE RESIDUE

Compound	Dynamic Range (ppb)	Result (ppb)
Acephate	40 - 2492	ND*
Acetamiprid	43 - 2492	ND*
Abamectin	>319	ND*
Azoxystrobin	46 - 2492	ND*
Bifenazate	25 - 2492	ND*
Boscalid	41 - 2492	ND*
Carbaryl	41 - 2492	ND*
Carbofuran	42 - 2492	ND*
Chlorantraniliprole	52 - 2492	ND*
Chlorpyrifos	43 - 2492	ND*
Clofentezine	290 - 2492	ND*
Diazinon	283 - 2492	ND*
Dichlorvos	>275	ND*
Dimethoate	43 - 2492	ND*
E-Fenpyroximate	309 - 2492	ND*
Etofenprox	40 - 2492	ND*
Etoxazole	303 - 2492	ND*
Fenoxycarb	>43	ND*
Fipronil	53 - 2492	ND*
Flonicamid	47 - 2492	ND*
Fludioxonil	>259	ND*
Hexythiazox	31 - 2492	ND*
Imazalil	282 - 2492	ND*
Imidacloprid	48 - 2492	ND*
Kresoxim-methyl	43 - 2492	ND*

Compound	Dynamic Range (ppb)	Result (ppb)
Malathion	280 - 2492	ND*
Metalaxyl	41 - 2492	ND*
Methiocarb	42 - 2492	ND*
Methomyl	42 - 2492	ND*
MGK 264 1	162 - 2492	ND*
MGK 264 2	116 - 2492	ND*
Myclobutanil	43 - 2492	ND*
Naled	37 - 2492	ND*
Oxamyl	41 - 2492	ND*
Paclobutrazol	45 - 2492	ND*
Permethrin	263 - 2492	ND*
Phosmet	43 - 2492	ND*
Prophos	292 - 2492	ND*
Propoxur	41 - 2492	ND*
Pyridaben	307 - 2492	ND*
Spinosad A	29 - 2492	ND*
Spinosad D	83 - 2492	ND*
Spiromesifen	>288	ND*
Spirotetramat	>298	ND*
Spiroxamine 1	19 - 2492	ND*
Spiroxamine 2	24 - 2492	ND*
Tebuconazole	299 - 2492	ND*
Thiacloprid	44 - 2492	ND*
Thiamethoxam	44 - 2492	ND*
Trifloxystrobin	46 - 2492	ND*

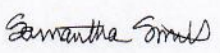
* ND = None Detected (Defined by Dynamic Range of the method)

N/A

FINAL APPROVAL

Taylor Brevik
28-May-2021
2:34 PM

PREPARED BY / DATE



Sam Smith
28-May-2021
2:37 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.

botanacor

CERTIFICATE OF ANALYSIS

prepared for: Kansas Heritage Farms LLC
833 E 675th RD.
Lawrence, KS 66047

Nano Encapsulated 31

Batch ID:	2113101AAFS	**Test ID:**	T000142854
Type:	Unit	**Submitted:**	05/25/2021 @ 09:02 AM
Test:	Metals	**Started:**	5/26/2021
Method:	TM19	**Reported:**	5/27/2021

HEAVY METALS

Analyte	Dynamic Range (ppm)	Result (ppm)
Arsenic	0.046 - 4.62	ND
Cadmium	0.044 - 4.39	ND
Mercury	0.045 - 4.45	ND
Lead	0.043 - 4.33	ND

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

FINAL APPROVAL

Ryan Weems
27-May-2021
11:49 AM

PREPARED BY / DATE

Daniel Weidensaul
27-May-2021
11:50 AM

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.

Botanacor Laboratories™, All Rights Reserved | 1301 S Jason St Unit K, Denver, CO 80223 | 888.800.8223 | www.botanacor.com

botanacor

CERTIFICATE OF ANALYSIS

prepared for: Kansas Heritage Farms LLC
833 E 675th RD.
Lawrence, KS 66047

Nano Encapsulated CBG 1 and CBG 1a

Batch ID:	2113001AAFS	**Test ID:**	T000143175
Type:	Concentrate	**Submitted:**	05/27/2021 @ 10:49 AM
Test:	Density	**Started:**	5/27/2021
Method:	TL-SOP-0034	**Reported:**	5/28/2021

DENSITY

Value	Units
1.008	g/mL

NOTES:
Free from visual mold, mildew, and foreign matter

FINAL APPROVAL

K Winternheimer — Karen Winternheimer, 28-May-2021, 3:23 PM
PREPARED BY / DATE

Samantha Smith — Sam Smith, 28-May-2021, 3:25 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.