

## 10 November 2021 Nano Encapsulated Concentrate

<b>Batch ID:</b>	2128801ACFS	<b>Test ID:</b>	T000175767
<b>Type:</b>	Solution	<b>Submitted:</b>	11/10/2021 @ 01:42 PM
<b>Test:</b>	Potency	<b>Started:</b>	11/12/2021
<b>Method:</b>	TM14 (HPLC-DAD)	<b>Reported:</b>	11/16/2021

## CANNABINOID PROFILE

		Compound	LOQ (mg/mL)	Result (mg/mL)	Result (mg/g)	
ND mg/mL CBD		Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.45	ND	ND	
		Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.51	ND	ND	
		Cannabidiolic acid (CBDA)	0.69	ND	ND	
		Cannabidiol (CBD)	0.67	ND	ND	
		Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.56	ND	ND	
		Cannabinolic Acid (CBNA)	0.32	ND	ND	
		Cannabinol (CBN)	0.15	ND	ND	
		Cannabigerolic acid (CBGA)	0.47	ND	ND	
		Cannabigerol (CBG)	0.11	22.39	22.2	
		Tetrahydrocannabivarinic Acid (THCVA)	0.40	ND	ND	
		Tetrahydrocannabivarin (THCV)	0.10	ND	ND	
	CBD	0.00%	Cannabidivarinic Acid (CBDVA)	0.29	ND	ND
			Cannabidivarin (CBDV)	0.16	ND	ND
	CBDa	0.00%	Cannabichromenic Acid (CBCA)	0.18	ND	ND
			Cannabichromene (CBC)	0.20	ND	ND
			<b>Total Cannabinoids</b>		<b>22.39</b>	<b>22.2</b>
	delta 9 THC	0.00%	Total Potential THC**		ND	ND
THCa	0.00%	Total Potential CBD**		ND	ND	

## NOTES:

Density = 1.008185g/mL

% = % (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)

## FINAL APPROVAL

 <b>Jacob Miller</b> 16-Nov-2021 1:52 PM	 <b>Sam Smith</b> 16-Nov-2021 2:03 PM
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



Certificate #4329.02


Prepared for:

**10 November 2021 Nano Encapsulated Concentrate**
**Kaw Valley Cannabis LLC**

Batch ID or Lot Number: <b>2128801ACFS</b>	Test: <b>Pesticides</b>	Reported: <b>11/17/21</b>	Location: 833 E 675th Road Lawrence, KS 66047
Matrix: Concentrate	Test ID: T000175769	Started: 11/16/21	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 11/10/2021 @ 01:42 PM	Sampler ID: N/A

**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	38	ND	Fenoxycarb	33	ND	Paclobutrazol	34	ND
Acetamiprid	31	ND	Fipronil	36	ND	Permethrin	294	ND
Avermectin	238	ND	Flonicamid	35	ND	Phosmet	32	ND
Azoxystrobin	33	ND	Fludioxonil	297	ND	Prophos	269	ND
Bifenazate	33	ND	Hexythiazox	31	ND	Propoxur	37	ND
Boscalid	29	ND	Imazalil	270	ND	Pyridaben	293	ND
Carbaryl	32	ND	Imidacloprid	33	ND	Spinosad A	27	ND
Carbofuran	34	ND	Kresoxim-methyl	150	ND	Spinosad D	52	ND
Chlorantraniliprole	25	ND	Malathion	272	ND	Spiromesifen	256	ND
Chlorpyrifos	500	ND	Metalaxyl	36	ND	Spirotetramat	273	ND
Clofentezine	288	ND	Methiocarb	34	ND	Spiroxamine 1	16	ND
Diazinon	279	ND	Methomyl	35	ND	Spiroxamine 2	20	ND
Dichlorvos	269	ND	MGK 264 1	151	ND	Tebuconazole	282	ND
Dimethoate	35	ND	MGK 264 2	112	ND	Thiacloprid	31	ND
E-Fenpyroximate	275	ND	Myclobutanil	30	ND	Thiamethoxam	35	ND
Etofenprox	32	ND	Naled	43	ND	Trifloxystrobin	33	ND
Etoxazole	282	ND	Oxamyl	1500	ND			

  
 Sam Smith  
 11/17/2021  
 4:42:00 PM

  
 Daniel Weidensaul  
 11/17/2021  
 5:02:00 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. 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:


### 10 November 2021 Nano Encapsulated Concentrate

**Kaw Valley Cannabis LLC**

Batch ID or Lot Number: <b>2128801ACFS</b>	Test: <b>Metals</b>	Reported: <b>11/15/21</b>	Location: 833 E 675th Road Lawrence, KS 66047
Matrix: Unit	Test ID: T000175771	Started: 11/14/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS): Heavy Metals	Received: 11/10/2021 @ 01:42 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

PREPARED BY / DATE

APPROVED BY / DATE

#### Definitions

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

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Prepared for:

**10 November 2021 Nano Encapsulated Concentrate**
**Kaw Valley Cannabis LLC**

Batch ID or Lot Number: <b>2128801ACFS</b>	Test: <b>Residual Solvents</b>	Reported: <b>11/12/21</b>	Location: 833 E 675th Road Lawrence, KS 66047
Matrix: N/A	Test ID: t000175772	Started: 11/12/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents	Received: 11/10/2021 @ 01:42 PM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	85 - 1697	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	174 - 3484	*ND	
<b>Methanol</b>	61 - 1224	*ND	
<b>Pentane</b>	87 - 1748	*ND	
<b>Ethanol</b>	83 - 1661	*ND	
<b>Acetone</b>	98 - 1956	*ND	
<b>Isopropyl Alcohol</b>	102 - 2037	*ND	
<b>Hexane</b>	6 - 119	*ND	
<b>Ethyl Acetate</b>	99 - 1976	*ND	
<b>Benzene</b>	0.2 - 4	*ND	
<b>Heptanes</b>	93 - 1867	*ND	
<b>Toluene</b>	18 - 360	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	125 - 2506	*ND	


 Sam Smith  
 12-Nov-21  
 2:22 PM


 Ryan Weems  
 12-Nov-21  
 2:24 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

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

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## 10 November 2021 Nano Encapsulated Concentrate

<b>Batch ID:</b>	2128801ACFS	<b>Test ID:</b>	T000175770
<b>Matrix:</b>	Finished Product	<b>Received:</b>	11/10/2021 @ 01:42 PM
<b>Test:</b>	Microbial Contaminants	<b>Started:</b>	11/11/2021
<b>Method:</b>	TM25 (qPCR) TM24, TM26, TM27, TM28 (Culture Plating)	<b>Reported:</b>	11/15/2021

## MICROBIAL CONTAMINANTS

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

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

Examples: 10<sup>2</sup> = 100 CFU  
 10<sup>3</sup> = 1,000 CFU  
 10<sup>4</sup> = 10,000 CFU  
 10<sup>5</sup> = 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

  
 Brett Hudson  
 11/15/2021  
 11:29:00 AM

PREPARED BY / DATE

  
 Brianne Maillot  
 11/15/2021  
 4:22:00 PM

APPROVED BY / DATE

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