

# STRAIGHT HEMP

## CERTIFICATE OF ANALYSIS

PRODUCT: Full Spectrum Hemp Softgels  
BATCH/LOT: ND22173  
INGREDIENTS: Organic Hemp Seed Oil, Full Spectrum Hemp Extract, Hemp Terpenes, Softgel Capsule (Gelatin, Distilled Water, Glycerin)  
ADDITIVES: none  
EXCIPIENTS: none

PRODUCTION DATE: 06/2022  
EXPIRATION DATE: 06/2024

TEST	METHOD	SPECIFICATION	RESULTS
<b>Strength &amp; Composition</b>			
Identity	Organoleptic	Conforming	PASS
Identity	UPLC/UV	Chemical Fingerprint	PASS
Total Cannabidiol (CBD) <sup>i</sup>	UPLC/UV	10.0 – 12.0 mg/softgel	10.6 mg/softgel
Total Tetrahydrocannabinol (THC) <sup>ii</sup>	UPLC/UV	NMT 0.30%	0.038%
Terpene assay <sup>iii</sup>	HS-GC/MS	n/e	3,385 ppm
<b>Microbiological<sup>iv</sup></b>			
Total Plate Count	TM-26	NMT 10,000 cfu/g	PASS
Total Yeast & Mold	TM-24	NMT 1,000 cfu/g	PASS
Total Coliforms	TM-27	NMT 100 cfu/g	PASS
<i>E. coli</i>	TM-25	Absent/25g	PASS
<i>Salmonella</i>	TM-25	Absent/25g	PASS
<b>Mycotoxins</b>			
Alfatoxin B1	LCMS	NMT 20 ppb	PASS
Alfatoxin B2	LCMS	NMT 20 ppb	PASS
Alfatoxin G1	LCMS	NMT 20 ppb	PASS
Alfatoxin G2	LCMS	NMT 20 ppb	PASS
Ochratoxin	LCMS	NMT 20 ppb	PASS
<b>Heavy Metals<sup>v</sup></b>			
Arsenic (As)	ICP/MS	NMT 1.0 ppm	PASS
Cadmium (Cd)	ICP/MS	NMT 0.5 ppm	PASS
Lead (Pb)	ICP/MS	NMT 0.5 ppm	PASS
Mercury (Hg)	ICP/MS	NMT 0.1 ppm	PASS

<sup>i</sup> Total CBD = CBD + (0.877\*CBDA) to account for loss of acid group during decarboxylation

<sup>ii</sup> Total THC = THC + (0.877\*THCA) to account for loss of acid group during decarboxylation

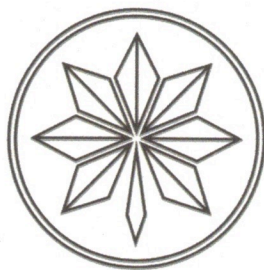
<sup>iii</sup> Sum of terpene assay (n=22)

<sup>iv</sup> Microbiological limits based on USP, WHO, and/or NSF/ANSI

<sup>v</sup> Limits for As and Pb set below CA Prop 65 *no significant risk level*; Cd and Hg set below USP permitted daily exposure for 110lb body weight. Complies with 6 CCR 1010-21

NMT = Not More Than  
n/e = not established

MRL = Method Reporting Limit



# STRAIGHT HEMP

## CERTIFICATE OF ANALYSIS

PRODUCT: Full Spectrum Hemp Softgels  
BATCH/LOT: ND22173  
INGREDIENTS: Organic Hemp Seed Oil, Full Spectrum Hemp Extract, Hemp Terpenes, Softgel Capsule (Gelatin, Distilled Water, Glycerin)  
ADDITIVES: none  
EXCIPIENTS: none

PRODUCTION DATE: 06/2022  
EXPIRATION DATE: 06/2024

TEST	METHOD	SPECIFICATION	RESULTS
Residual Solvents Multi-residue panel	GC-HS-MSD	Below MRL <sup>vi</sup>	PASS
Pesticides Multi-residue panel	UPLC-MS/MS	Below MRL <sup>vii</sup>	PASS

# STRAIGHT HEMP

David Cole  
Director of Quality

9/12/22  
Date

<sup>vi</sup> 11 solvent panel: Propane, Butane, Pentane, Ethanol, Acetone, Isopropyl Alcohol, Hexane, Benzene, Heptanes, Toluene, Xylenes  
<sup>vii</sup> 50 residue panel

MRL = Method Reporting Limit

Prepared for:

**Full Spectrum CBD Softgels**

**Straight Hemp**


Batch ID or Lot Number: <b>ND22173</b>	Test: <b>Potency</b>	Reported: <b>8/29/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
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Matrix: Unit	Test ID: T000219454	Started: 8/29/22	USDA License: N/A
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Status: Active	Method: TM14 (HPLC-DAD): Potency - Broad Spectrum Analysis, 0.01% THC	Received: 08/26/2022 @ 10:28 AM	Sampler ID: N/A
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**CANNABINOID PROFILE**

Compound	LOD (mg)	LOQ (mg)	Result (mg)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.020	0.059	ND	ND	# of Servings = 1 Sample Weight=0.612g
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.022	0.067	0.230	0.38	
Cannabidiolic acid (CBDA)	0.198	0.737	<LOQ	0.38	
Cannabidiol (CBD)	0.193	0.719	10.415	17.01	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.267	0.806	ND	ND	
Cannabinolic Acid (CBNA)	0.153	0.461	ND	ND	
Cannabinol (CBN)	0.070	0.211	ND	ND	
Cannabigerolic acid (CBGA)	0.224	0.676	ND	ND	
Cannabigerol (CBG)	0.054	0.162	<LOQ	0.15	
Tetrahydrocannabivarinic Acid (THCVA)	0.190	0.572	ND	ND	
Tetrahydrocannabivarin (THCV)	0.049	0.147	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.083	0.307	ND	ND	
Cannabidivarin (CBDV)	0.046	0.170	ND	ND	
Cannabichromenic Acid (CBCA)	0.086	0.261	ND	ND	
Cannabichromene (CBC)	0.094	0.285	0.338	0.55	
<b>Total Cannabinoids</b>			<b>11.306</b>	<b>18.46</b>	
Total Potential THC**			0.230	0.38	
Total Potential CBD**			10.618	17.34	

Prepared by:   
Sam Smith  
29-Aug-22  
6:09 PM

Approved by:   
Daniel Weidensaul  
29-Aug-22  
6:12 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

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

\*\* 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)

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CDPHE Certified

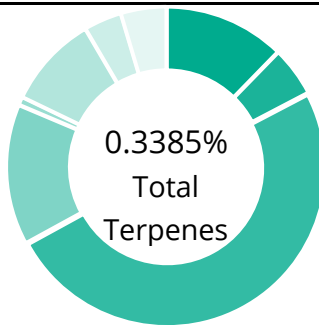


Certificate #4329.02

Full Spectrum CBD Softgels

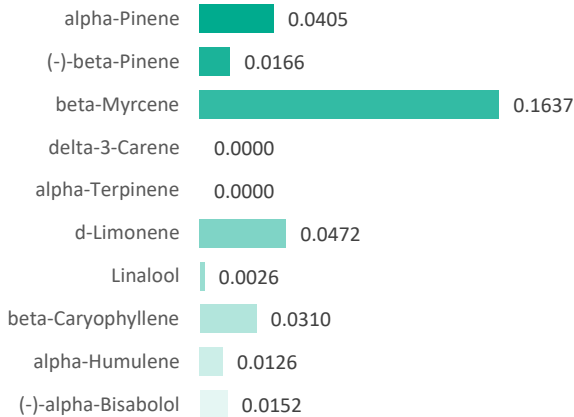
<b>Batch ID:</b>	ND22173	<b>Test ID:</b>	T000219455
<b>Type:</b>	Concentrate	<b>Submitted:</b>	08/26/2022 @ 10:28 AM
<b>Test:</b>	Terpenes	<b>Started:</b>	8/29/2022
<b>Method:</b>	TM22 (GC-MS)	<b>Reported:</b>	8/30/2022

TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0152	0.152
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0310	0.310
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0031	0.031
Geraniol	0.0000	0.000
alpha-Humulene	0.0126	0.126
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0472	0.472
Linalool	0.0026	0.026
beta-Myrcene	0.1637	1.637
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0011	0.011
Ocimene	0.0000	0.000
beta-Ocimene	0.0000	0.000
alpha-Pinene	0.0405	0.405
(-)-beta-Pinene	0.0166	0.166
alpha-Terpinene	0.0000	0.000
gamma-Terpinene	0.0006	0.006
Terpinolene	0.0043	0.043
	<b>0.3385</b>	<b>3.385</b>


PREDOMINANT TERPENES




NOTES:

N/A

FINAL APPROVAL

  
Jacob Miller  
30-Aug-2022  
1:08 PM

  
Daniel Weidensaul  
30-Aug-2022  
1:10 PM

PREPARED BY / DATE

APPROVED BY / DATE

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Certificate #4329.02

Prepared for:


**Full Spectrum CBD Softgels**

**Straight Hemp**


Batch ID or Lot Number: <b>ND22173</b>	Test: <b>Mycotoxins</b>	Reported: <b>8/30/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000219459	Started: 8/29/22	USDA License: N/A
Status: Active	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins	Received: 08/26/2022 @ 10:28 AM	Sampler ID: N/A

**MYCOTOXIN DETERMINATION**

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	2 - 121.8	ND	N/A
Aflatoxin B1	1 - 30	ND	
Aflatoxin B2	0.9 - 30.3	ND	
Aflatoxin G1	0.9 - 30	ND	
Aflatoxin G2	1.1 - 30.3	ND	
<b>Total Aflatoxins (B1, B2, G1, and G2)</b>		ND	

 Jacob Miller  
30-Aug-22  
10:11 AM

PREPARED BY / DATE

 Sam Smith  
30-Aug-22  
10:21 AM

APPROVED BY / DATE

**Definitions**

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

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Certificate #4329.02

Prepared for:

**Full Spectrum CBD Softgels**

**Straight Hemp**

Batch ID or Lot Number: <b>ND22173</b>	Test: <b>Metals</b>	Reported: <b>8/29/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Unit Co	Test ID: T000219457	Started: 8/29/22	USDA License: N/A
Status: Active	Method: TM19 (ICP-MS); Heavy Metals	Received: 08/26/2022 @ 10:28 AM	Sampler ID: N/A

**HEAVY METALS DETERMINATION**

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.047 - 4.72	ND	
Cadmium	0.048 - 4.81	ND	
Mercury	0.044 - 4.45	ND	
Lead	0.050 - 5.01	ND	

*Sam Smith*  
Sam Smith  
29-Aug-22  
5:15 PM

PREPARED BY / DATE

*Daniel Weidensaul*  
Daniel Weidensaul  
29-Aug-22  
6:03 PM

APPROVED BY / DATE

**Definitions**

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Certificate #4329.02

Prepared for:


**Full Spectrum CBD Softgels**


**Straight Hemp**

Batch ID or Lot Number: <b>ND22173</b>	Test: <b>Residual Solvents</b>	Reported: <b>8/29/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: N/A	Test ID: T000219458	Started: 8/29/22	USDA License: N/A
Status: Active	Methods: TM04 (GC-MS): Residual Solvents	Received: 08/26/2022 @ 10:28 AM	Sampler ID: N/A

**RESIDUAL SOLVENTS DETERMINATION**

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
<b>Propane</b>	88 - 1761	*ND	
<b>Butanes</b> (Isobutane, n-Butane)	187 - 3737	*ND	
<b>Methanol</b>	59 - 1182	*ND	
<b>Pentane</b>	98 - 1952	*ND	
<b>Ethanol</b>	92 - 1845	*ND	
<b>Acetone</b>	97 - 1932	*ND	
<b>Isopropyl Alcohol</b>	99 - 1977	*ND	
<b>Hexane</b>	6 - 119	*ND	
<b>Ethyl Acetate</b>	99 - 1970	*ND	
<b>Benzene</b>	0.2 - 3.9	*ND	
<b>Heptanes</b>	99 - 1989	*ND	
<b>Toluene</b>	17 - 350	*ND	
<b>Xylenes</b> (m,p,o-Xylenes)	129 - 2583	*ND	

 Daniel Weidensaul  
29-Aug-22  
6:19 PM

 Jacob Miller  
29-Aug-22  
6:20 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

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

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Certificate #4329.02

Prepared for:

**Full Spectrum CBD Softgels**

**Straight Hemp**

Batch ID or Lot Number: <b>ND22173</b>	Test: <b>Pesticides</b>	Reported: <b>8/29/22</b>	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000219456	Started: 8/25/22	USDA License: N/A
Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 08/26/2022 @ 10:28 AM	Sampler ID: N/A

**PESTICIDE DETERMINATION**

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	52	ND	Fenoxycarb	42	ND	Paclobutrazol	40	ND
Acetamiprid	45	ND	Fipronil	2	ND	Permethrin	330	ND
Abamectin	326	ND	Flonicamid	47	ND	Phosmet	40	ND
Azoxystrobin	38	ND	Fludioxonil	341	ND	Prophos	314	ND
Bifenazate	48	ND	Hexythiazox	48	ND	Propoxur	41	ND
Boscalid	57	ND	Imazalil	297	ND	Pyridaben	290	ND
Carbaryl	44	ND	Imidacloprid	46	ND	Spinosad A	35	ND
Carbofuran	40	ND	Kresoxim-methyl	150	ND	Spinosad D	62	ND
Chlorantraniliprole	55	ND	Malathion	278	ND	Spiromesifen	307	ND
Chlorpyrifos	500	ND	Metaxyl	38	ND	Spirotetramat	333	ND
Clofentezine	276	ND	Methiocarb	48	ND	Spiroxamine 1	24	ND
Diazinon	289	ND	Methomyl	51	ND	Spiroxamine 2	32	ND
Dichlorvos	309	ND	MGK 264 1	139	ND	Tebuconazole	271	ND
Dimethoate	47	ND	MGK 264 2	116	ND	Thiacloprid	39	ND
E-Fenpyroximate	300	ND	Myclobutanil	51	ND	Thiamethoxam	43	ND
Etofenprox	49	ND	Naled	51	ND	Trifloxystrobin	38	ND
Etoxazole	295	ND	Oxamyl	1500	ND			

*Samantha Smith*  
Sam Smith  
8/29/2022  
5:25:00 PM

*Daniel Weidensaul*  
Daniel Weidensaul  
8/29/2022  
5:28:00 PM

PREPARED BY / DATE

APPROVED BY / DATE

**Definitions**

LOQ = Limit of Quantification  
ppb = Parts per Billion

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Certificate #4329.02





## Certificate of Analysis

Straight Hemp  
 4927 SW 41<sup>st</sup> Blvd, Ste 40-50  
 Gainesville, FL 32608  
 Phone: 970-214-7814

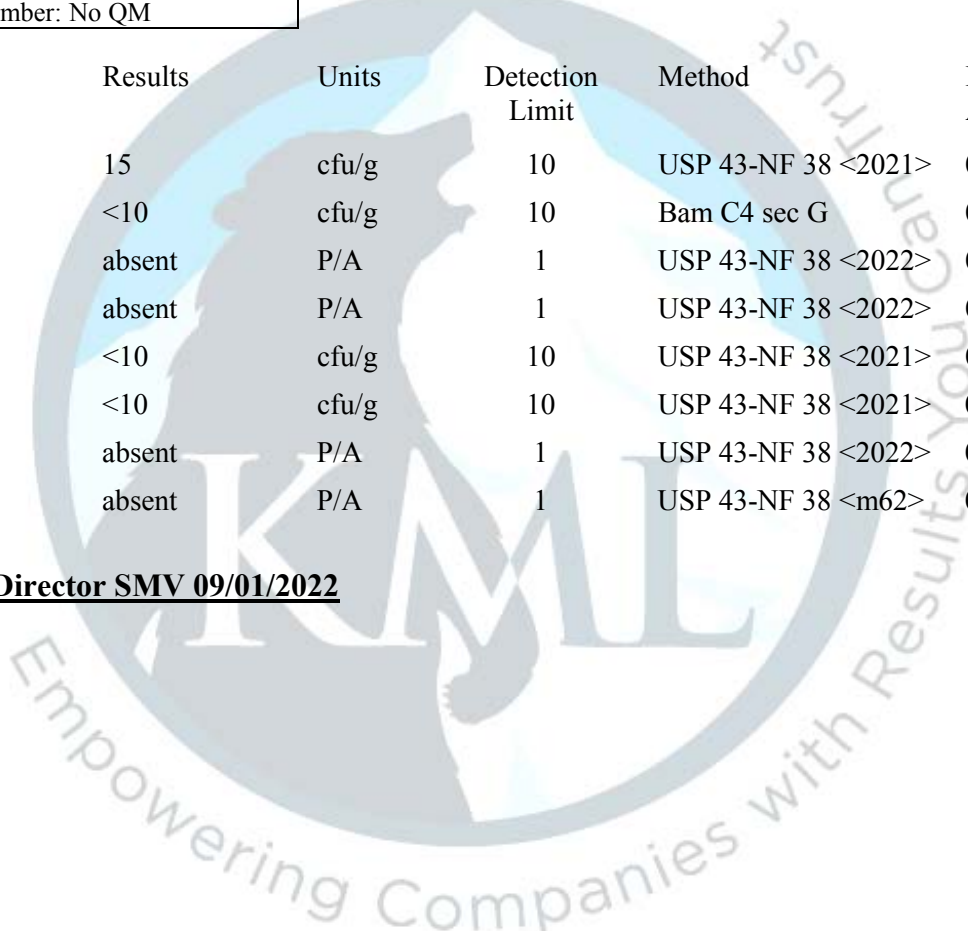
Invoice Number: 22.1087  
 PO Number:  
 Received Date: 08/27/2022  
 Number of Samples: 01  
 Project Name: Routine Testing

### Microbiology Report:

Lab #: 22-8126	Sample Lot: ND22173	Sample Date:
Sample Name: Striaght Hemp CBD Softgels	Additional ID: Full Spectrum CBD Soft gels	Plated Date: 08/27/2022
Qualifying Material Number: No QM		

Test Performed	Results	Units	Detection Limit	Method	Date Analyzed
Aerobic Plate Count	15	cfu/g	10	USP 43-NF 38 <2021>	08/30/2022
Coliforms	<10	cfu/g	10	Bam C4 sec G	08/28/2022
<i>E. coli</i>	absent	P/A	1	USP 43-NF 38 <2022>	08/30/2022
<i>Staph aureus</i>	absent	P/A	1	USP 43-NF 38 <2022>	08/30/2022
Yeast	<10	cfu/g	10	USP 43-NF 38 <2021>	09/01/2022
Mold	<10	cfu/g	10	USP 43-NF 38 <2021>	09/01/2022
Salmonella	absent	P/A	1	USP 43-NF 38 <2022>	08/31/2022
<i>Pseudo. aeruginosa</i>	absent	P/A	1	USP 43-NF 38 <m62>	08/30/2022

**Approved By: QA Director SMV 09/01/2022**



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## Certificate of Analysis

Straight Hemp  
 4927 SW 41<sup>st</sup> Blvd, Ste 40-50  
 Gainesville, FL 32608  
 Phone: 970-214-7814

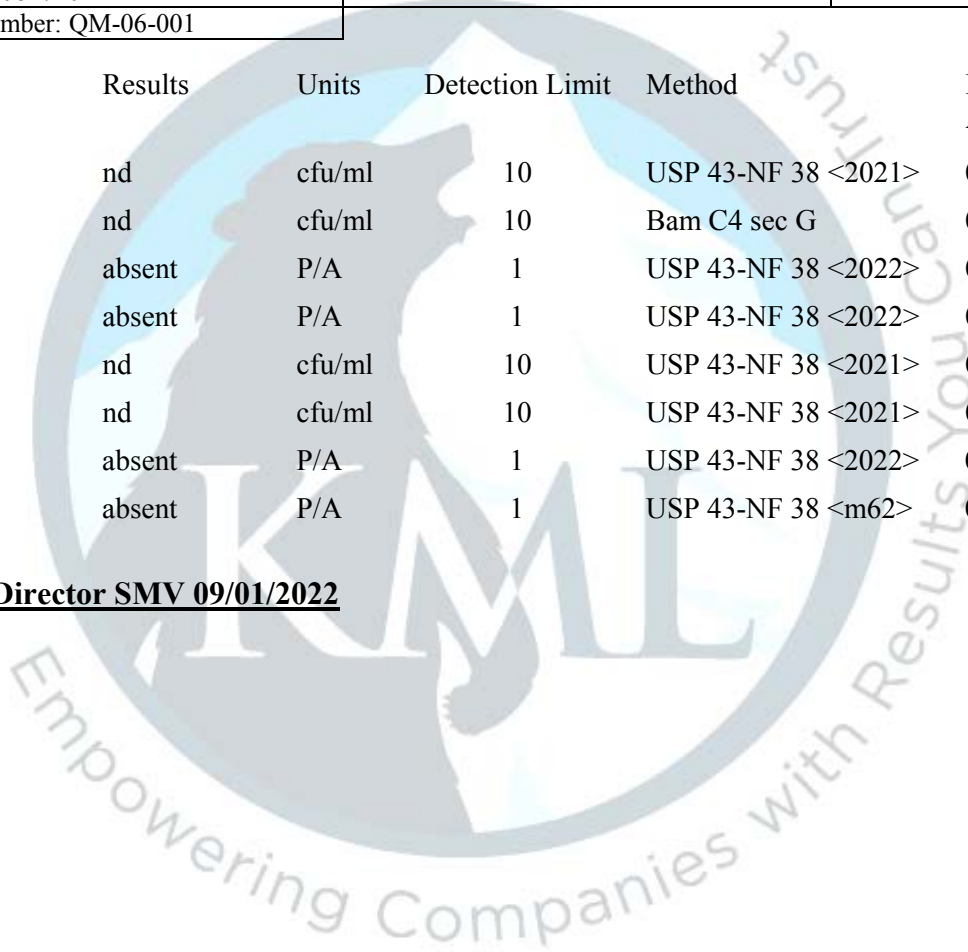
Invoice Number: 22.1087  
 PO Number:  
 Received Date: 08/27/2022  
 Number of Samples: 01  
 Project Name: Routine Testing

### Microbiology Report:

Lab #: Control 08272022	Additional ID: Negative Control Purposes	Plated Date: 08/27/2022
Sample Name: Control 08272022		
Qualifying Material Number: QM-06-001		

Test Performed	Results	Units	Detection Limit	Method	Date Analyzed
Aerobic Plate Count	nd	cfu/ml	10	USP 43-NF 38 <2021>	08/30/2022
Coliforms	nd	cfu/ml	10	Bam C4 sec G	08/28/2022
<i>E. coli</i>	absent	P/A	1	USP 43-NF 38 <2022>	08/30/2022
<i>Staph aureus</i>	absent	P/A	1	USP 43-NF 38 <2022>	08/30/2022
Yeast	nd	cfu/ml	10	USP 43-NF 38 <2021>	09/01/2022
Mold	nd	cfu/ml	10	USP 43-NF 38 <2021>	09/01/2022
Salmonella	absent	P/A	1	USP 43-NF 38 <2022>	08/31/2022
<i>Pseudo. aeruginosa</i>	absent	P/A	1	USP 43-NF 38 <m62>	08/30/2022

**Approved By: QA Director SMV 09/01/2022**



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