

STRAIGHT HEMP

CERTIFICATE OF ANALYSIS

PRODUCT: Full Spectrum Hemp Oil – Certified Organic PRODUCTION DATE: 11/2021
BATCH/LOT: OO21321 EXPIRATION DATE: 11/2023
INGREDIENTS: Organic Hemp Seed Oil, Organic Full Spectrum Hemp Extract, Hemp Terpenes
ADDITIVES: none
EXCIPIENTS: none

TEST	METHOD	SPECIFICATION	RESULTS
Strength & Composition			
Identity	Organoleptic	Conforming	PASS
Identity	HPLC-DAD	Chemical Fingerprint	PASS
Total Cannabidiol (CBD) ⁱ	HPLC-DAD	36.7 – 42.3 mg/g	38.85 mg/g ⁱⁱ
Total Tetrahydrocannabinol (THC) ⁱⁱⁱ	HPLC-DAD	NMT 0.30%	0.129%
Terpene assay ^{iv}	HS-GC/MS	n/e	5,218 ppm
Microbiological^v			
Total Plate Count	TM-26	NMT 1,000 cfu/g	PASS
Total Yeast & Mold	TM-24	NMT 100 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
Mycotoxins			
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
Heavy Metals^{vi}			
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

ⁱ Total CBD = CBD + (0.877*CBDA) to account for loss of acid group during decarboxylation

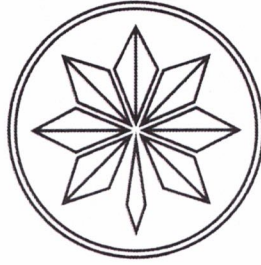
ⁱⁱ Corresponds to **35.9 mg/ml**

ⁱⁱⁱ Total THC = THC + (0.877*THCa) to account for loss of acid group during decarboxylation

^{iv} Sum of terpene assay (n=22)

^v Microbiological limits based on USP, WHO, and/or NSF/ANSI

^{vi} 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



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BATCH/LOT: OO21321 EXPIRATION DATE: 11/2023
INGREDIENTS: Organic Hemp Seed Oil, Organic Full Spectrum Hemp Extract, Hemp Terpenes
ADDITIVES: none
EXCIPIENTS: none

TEST	METHOD	SPECIFICATION	RESULTS
Residual Solvents ^{vii}			
Acetone	GC-MS	Below MRL	PASS
Benzene	GC-MS	Below MRL	PASS
Butanes	GC-MS	Below MRL	PASS
Ethanol	GC-MS	Below MRL	PASS
Ethyl Acetate	GC-MS	Below MRL	PASS
Heptanes	GC-MS	Below MRL	PASS
Hexane	GC-MS	Below MRL	PASS
Isopropyl Alcohol	GC-MS	Below MRL	PASS
Methanol	GC-MS	Below MRL	PASS
Pentane	GC-MS	Below MRL	PASS
Propane	GC-MS	Below MRL	PASS
Toluene	GC-MS	Below MRL	PASS
Xylenes	GC-MS	Below MRL	PASS
Pesticides			
Multi-residue panel	UPLC-MS/MS	Below MRL ^{viii}	PASS

NMT = Not More Than

MRL = Method Reporting Limit

n/e = not established


David Cole
Director of Quality

12/8/21
Date

^{vii} 21 solvent panel may also include: 1,1-Dichloroethene, 1,2-Dichloroethane, Acetonitrile, Chloroform, Ethyl Ether, Ethylene Oxide, Methylene Chloride, Trichloroethylene.

^{viii} 50 residue panel

Prepared for:

ORGANIC Full Spectrum Oil
Straight Hemp

Batch ID or Lot Number: 0021321	Test: Potency	Reported: 11/23/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
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Matrix: Concentrate	Test ID: T000177208	Started: 11/22/21	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: 11/18/2021 @ 09:09 AM	Sampler ID: N/A
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CANNABINOID PROFILE

Compound	LOD (%)	LOQ (%)	Result (%)	Result (mg/g)	Notes
Delta 9-Tetrahydrocannabinolic acid (THCA-A)	0.003	0.008	ND	ND	N/A
Delta 9-Tetrahydrocannabinol (Delta 9THC)	0.003	0.009	0.129	1.29	
Cannabidiolic acid (CBDA)	0.019	0.059	ND	ND	
Cannabidiol (CBD)	0.019	0.057	3.885	38.85	
Delta 8-Tetrahydrocannabinol (Delta 8THC)	0.022	0.063	ND	ND	
Cannabinolic Acid (CBNA)	0.013	0.036	ND	ND	
Cannabinol (CBN)	0.006	0.016	0.013*	0.13*	
Cannabigerolic acid (CBGA)	0.019	0.053	ND	ND	
Cannabigerol (CBG)	0.004	0.013	0.049	0.49	
Tetrahydrocannabivarinic Acid (THCVA)	0.016	0.044	ND	ND	
Tetrahydrocannabivarin (THCV)	0.004	0.011	ND	ND	
Cannabidivarinic Acid (CBDVA)	0.008	0.024	ND	ND	
Cannabidivarin (CBDV)	0.004	0.014	0.022	0.22	
Cannabichromenic Acid (CBCA)	0.007	0.020	ND	ND	
Cannabichromene (CBC)	0.008	0.022	0.178	1.78	
Total Cannabinoids			4.276	42.76	
Total Potential THC**			0.129	1.29	
Total Potential CBD**			3.885	38.85	


 Daniel Weidensaul
 23-Nov-2021
 05:10 PM


 Ryan Weems
 23-Nov-21
 5:13 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.

$$\text{Total THC} = \text{THC} + (\text{THCa} * (0.877)) \text{ and}$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} * (0.877))$$

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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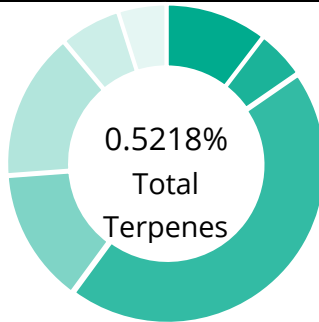


Certificate #4329.02

ORGANIC Full Spectrum Oil

Batch ID:	OO21321	Test ID:	T000177211
Type:	Concentrate	Submitted:	11/18/2021 @ 09:09 AM
Test:	Terpenes	Started:	11/22/2021
Method:	TM22 (GC-MS)	Reported:	11/23/2021

TERPENE PROFILE



Compound	%(w/w)	mg/g
(-)-alpha-Bisabolol	0.0248	0.248
Camphene	0.0000	0.000
delta-3-Carene	0.0000	0.000
beta-Caryophyllene	0.0763	0.763
(-)-Caryophyllene Oxide	0.0000	0.000
p-Cymene	0.0000	0.000
Eucalyptol	0.0038	0.038
Geraniol	0.0000	0.000
alpha-Humulene	0.0313	0.313
(-)-Isopulegol	0.0000	0.000
d-Limonene	0.0695	0.695
Linalool	0.0000	0.000
beta-Myrcene	0.2260	2.260
cis-Nerolidol	0.0000	0.000
trans-Nerolidol	0.0021	0.021
Ocimene	0.0000	0.000
beta-Ocimene	0.0031	0.031
alpha-Pinene	0.0525	0.525
(-)-beta-Pinene	0.0253	0.253
alpha-Terpinene	0.0000	0.000
gamma-Terpinene	0.0007	0.007
Terpinolene	0.0064	0.064
	0.5218	5.218


PREDOMINANT TERPENES


alpha-Pinene	0.0525
(-)-beta-Pinene	0.0253
beta-Myrcene	0.2260
delta-3-Carene	0.0000
alpha-Terpinene	0.0000
d-Limonene	0.0695
Linalool	0.0000
beta-Caryophyllene	0.0763
alpha-Humulene	0.0313
(-)-alpha-Bisabolol	0.0248

NOTES:

N/A

FINAL APPROVAL


 Rvan Weems
 23-Nov-2021
 6:17 PM


 Daniel Weidensaul
 23-Nov-2021
 6:28 PM

PREPARED BY / DATE

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A2LA Certificate Number 4329.02



Certificate #4329.02

Prepared for:


ORGANIC Full Spectrum Oil


Straight Hemp

Batch ID or Lot Number: 0021321	Test: Residual Solvents	Reported: 11/23/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: N/A	Test ID: T000177216	Started: 11/23/21	USDA License: N/A
Status: N/A	Methods: TM04 (GC-MS): Residual Solvents (Colorado Panel)	Received: 11/18/2021 @ 09:09 AM	Sampler ID: N/A

RESIDUAL SOLVENTS DETERMINATION

Solvent	Dynamic Range (ppm)	Result (ppm)	Notes
Propane	97 - 1947	*ND	
Butanes (Isobutane, n-Butane)	195 - 3894	*ND	
Methanol	59 - 1190	*ND	
Pentane	81 - 1617	*ND	
Ethanol	86 - 1722	*ND	
Acetone	95 - 1900	*ND	
Isopropyl Alcohol	101 - 2014	*ND	
Hexane	6 - 116	*ND	
Ethyl Acetate	97 - 1945	*ND	
Benzene	0.2 - 3.9	*ND	
Heptanes	91 - 1821	*ND	
Toluene	18 - 352	*ND	
Xylenes (m,p,o-Xylenes)	127 - 2548	*ND	

 Ryan Weems
23-Nov-21
4:06 PM

 Karen Winternheimer
23-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:

ORGANIC Full Spectrum Oil
Straight Hemp


Batch ID or Lot Number: 0021321	Test: Metals	Reported: 11/23/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Unit Co	Test ID: T000177215	Started: 11/22/21	USDA License: N/A
Status: N/A	Method: TM19 (ICP-MS); Heavy Metals (Colorado Panel)	Received: 11/18/2021 @ 09:09 AM	Sampler ID: N/A

HEAVY METALS DETERMINATION

Compound	Dynamic Range (ppm)	Result (ppm)	Notes
Arsenic	0.040 - 4.04	ND	
Cadmium	0.042 - 4.23	ND	
Mercury	0.042 - 4.15	ND	
Lead	0.042 - 4.23	ND	


 Ryan Weems
 23-Nov-21
 1:03 PM

PREPARED BY / DATE


 Sam Smith
 23-Nov-21
 1:07 PM

APPROVED BY / DATE

Definitions

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Prepared for:

ORGANIC Full Spectrum Oil
Straight Hemp


Batch ID or Lot Number: 0021321	Test: Pesticides	Reported: 11/24/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
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Matrix: Concentrate	Test ID: T000177212	Started: 11/22/21	USDA License: N/A
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Status: N/A	Method: TM17(LC-QQQ LC MS/MS):	Received: 11/18/2021 @ 09:09 AM	Sampler ID: N/A
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PESTICIDE DETERMINATION

Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)	Compound	LOQ (ppb)	Result (ppb)
Acephate	33	ND	Fenoxycarb	42	ND	Paclobutrazol	46	ND
Acetamiprid	41	ND	Fipronil	68	ND	Permethrin	293	ND
Avermectin	316	ND	Flonicamid	42	ND	Phosmet	44	ND
Azoxystrobin	50	ND	Fludioxonil	286	ND	Prophos	279	ND
Bifenazate	44	ND	Hexythiazox	45	ND	Propoxur	44	ND
Boscalid	53	ND	Imazalil	276	ND	Pyridaben	284	ND
Carbaryl	42	ND	Imidacloprid	40	ND	Spinosad A	32	ND
Carbofuran	43	ND	Kresoxim-methyl	150	ND	Spinosad D	83	ND
Chlorantraniliprole	54	ND	Malathion	287	ND	Spiromesifen	258	ND
Chlorpyrifos	500	ND	Metalaxyl	45	ND	Spirotetramat	278	ND
Clofentezine	277	ND	Methiocarb	43	ND	Spiroxamine 1	18	ND
Diazinon	268	ND	Methomyl	43	ND	Spiroxamine 2	24	ND
Dichlorvos	271	ND	MGK 264 1	143	ND	Tebuconazole	292	ND
Dimethoate	40	ND	MGK 264 2	117	ND	Thiacloprid	40	ND
E-Fenpyroximate	270	ND	Myclobutanil	46	ND	Thiamethoxam	39	ND
Etofenprox	44	ND	Naled	47	ND	Trifloxystrobin	46	ND
Etoxazole	287	ND	Oxamyl	1500	ND			


 Daniel Weidensaul
 11/24/2021
 2:30:00 PM


 Sam Smith
 11/24/2021
 2:36:00 PM

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Definitions

LOQ = Limit of Quantification
 ppb = Parts per Billion

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Certificate #4329.02


Prepared for:


ORGANIC Full Spectrum Oil
Straight Hemp

Batch ID or Lot Number: 0021321	Test: Microbial Contaminants	Reported: 11/22/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Finished Product	Test ID: T000177213	Started: 11/18/21	USDA License: N/A
Status: N/A	Methods: TM25 (qPCR) TM24, TM26, TM27(Culture Plating): Microbial (Colorado Panel)	Received: 11/18/2021 @ 09:09 AM	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	


 Eden Thompson-Wright
 11/22/2021
 12:59:00 PM


 Jackson Osaghae-Nosa
 11/22/2021
 1:14:00 PM

PREPARED BY / DATE

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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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Certificate #4329.02

Prepared for:


ORGANIC Full Spectrum Oil

Straight Hemp

Batch ID or Lot Number: 0021321	Test: Mycotoxins	Reported: 11/22/21	Location: 5135 W 58th Ave, Unit 5 Arvada, CO 80002
Matrix: Concentrate	Test ID: T000177217	Started: 11/19/21	USDA License: N/A
Status: N/A	Method: TM18 (UHPLC-QQQ LCMS/MS): Mycotoxins (Colorado Panel)	Received: 11/18/2021 @ 09:09 AM	Sampler ID: N/A

MYCOTOXIN DETERMINATION

Compound	Dynamic Range (ppb)	Result (ppb)	Notes
Ochratoxin A	3 - 136.5	ND	N/A
Aflatoxin B1	1.1 - 34.1	ND	
Aflatoxin B2	1.1 - 33.5	ND	
Aflatoxin G1	1 - 34.1	ND	
Aflatoxin G2	1.2 - 33.2	ND	
Total Aflatoxins (B1, B2, G1, and G2)		ND	


 Sam Smith
 22-Nov-21
 10:08 AM


 Ryan Weems
 22-Nov-21
 10:10 AM

PREPARED BY / DATE

APPROVED BY / DATE

Definitions

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

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Certificate #4329.02



Certificate of Analysis

Straight Hemp
 5135 W. 58th Ave, Ste 5
 Arvada, CO 80002
 Phone: 970-214-7814

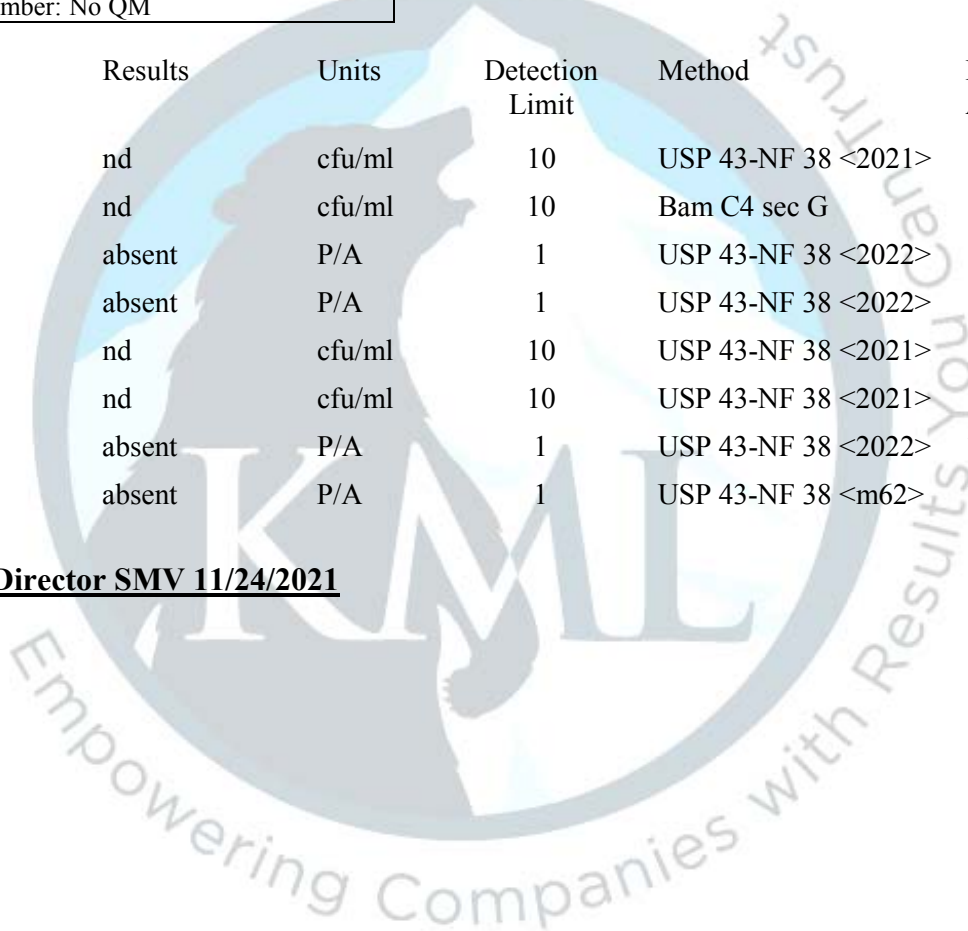
Invoice Number: 21.1458
 PO Number:
 Received Date: 11/19/2021
 Number of Samples: 01
 Project Name: Routine Testing

Microbiology Report:

Lab #: 21-12191	Sample Lot: OO21321	Sample Date: 11/18/2021
Sample Name: Organic Full Spectrum Oil	Additional ID:	Plated Date: 11/19/2021
Qualifying Material Number: No QM		

Test Performed	Results	Units	Detection Limit	Method	Date Analyzed
Aerobic Plate Count	nd	cfu/ml	10	USP 43-NF 38 <2021>	11/22/2021
Coliforms	nd	cfu/ml	10	Bam C4 sec G	11/20/2021
<i>E. coli</i>	absent	P/A	1	USP 43-NF 38 <2022>	11/22/2021
<i>Staph aureus</i>	absent	P/A	1	USP 43-NF 38 <2022>	11/22/2021
Yeast	nd	cfu/ml	10	USP 43-NF 38 <2021>	11/24/2021
Mold	nd	cfu/ml	10	USP 43-NF 38 <2021>	11/24/2021
Salmonella	absent	P/A	1	USP 43-NF 38 <2022>	11/23/2021
<i>Pseudo. aeruginosa</i>	absent	P/A	1	USP 43-NF 38 <m62>	11/22/2021

Approved By: QA Director SMV 11/24/2021



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Certificate of Analysis

Straight Hemp
 5135 W. 58th Ave, Ste 5
 Arvada, CO 80002
 Phone: 970-214-7814

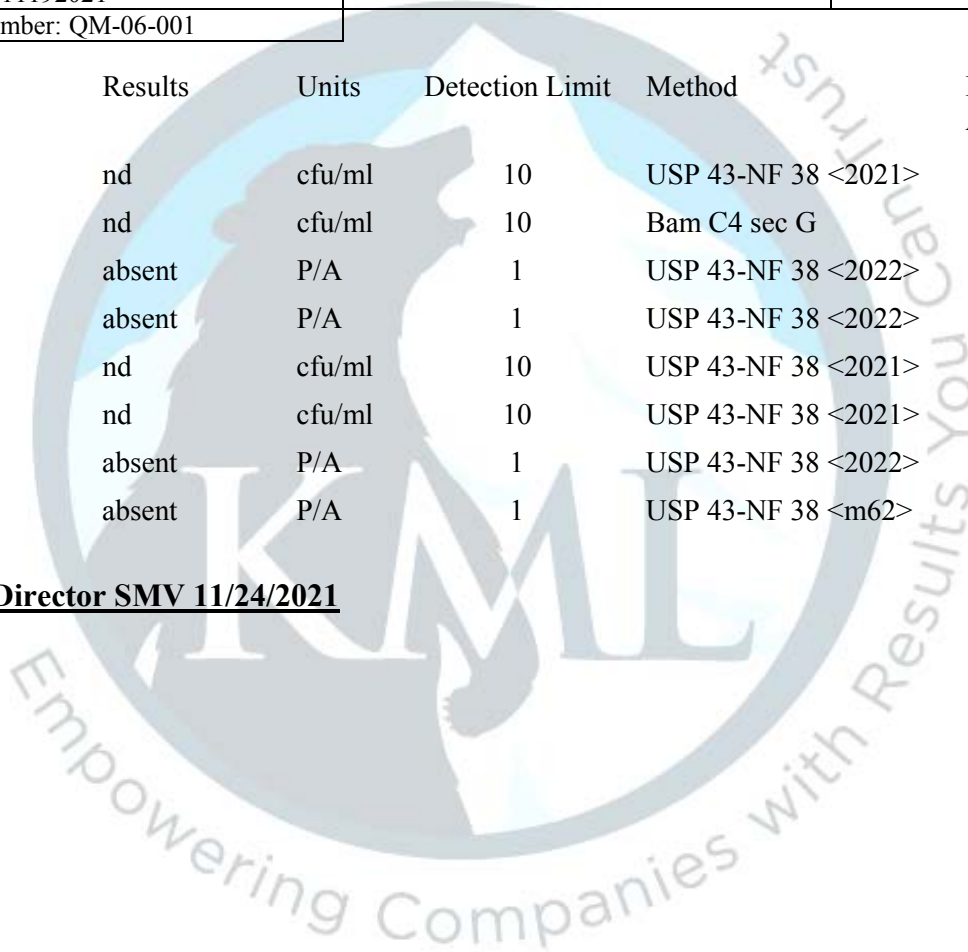
Invoice Number: 21.1458
 PO Number:
 Received Date: 11/19/2021
 Number of Samples: 01
 Project Name: Routine Testing

Microbiology Report:

Lab #: Control 11192021	Additional ID: Negative Control Purposes	Plated Date: 11/19/2021
Sample Name: Control 11192021		
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>	11/22/2021
Coliforms	nd	cfu/ml	10	Bam C4 sec G	11/20/2021
<i>E. coli</i>	absent	P/A	1	USP 43-NF 38 <2022>	11/22/2021
<i>Staph aureus</i>	absent	P/A	1	USP 43-NF 38 <2022>	11/22/2021
Yeast	nd	cfu/ml	10	USP 43-NF 38 <2021>	11/24/2021
Mold	nd	cfu/ml	10	USP 43-NF 38 <2021>	11/24/2021
Salmonella	absent	P/A	1	USP 43-NF 38 <2022>	11/23/2021
<i>Pseudo. aeruginosa</i>	absent	P/A	1	USP 43-NF 38 <m62>	11/22/2021

Approved By: QA Director SMV 11/24/2021



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Page 2 of 2

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