



PURE ANALYTICS™

CANNABIS POTENCY & SAFETY SCREENING

Test Report

Customer	ART0212		
Sample ID's	ART0212-1	->	7
Report Date	12-Jun-18		

Results Summary

Cannabinoid Results

Sample I.D.	Sample Name	THC mg/g	THCA mg/g	d-8 THC mg/g	CBD mg/g	CBDa mg/g	CBN mg/g	CBC mg/g	CBCa mg/g	CBG mg/g	CBGa mg/g	CBL mg/g	THCV mg/g	THCVa mg/g	CBDV mg/g	CBDVa mg/g	THC: CBD Ratio	CBD: THC Ratio	Total Cannabinoids mg/g
ART0212-1	PA V1 (f)	4.28	NA	0.15	ND	NA	0.22	0.17	NA	1.20	NA	0.13	15.4	NA	ND	NA	NA	NA	21.5
ART0212-2	PA V2 (f)	6.99	NA	0.12	ND	NA	0.24	0.32	NA	2.67	NA	0.22	16.7	NA	ND	NA	NA	NA	27.3
ART0212-3	PA V3 (f-short)	5.80	NA	0.10	ND	NA	0.19	0.45	NA	1.79	NA	0.15	8.35	NA	ND	NA	NA	NA	16.8
ART0212-4	PA V4 (m)	7.38	NA	0.09	ND	NA	ND	0.66	NA	1.63	NA	0.05	8.04	NA	ND	NA	NA	NA	17.8
ART0212-5	PA V5 (m)	12.3	NA	ND	ND	NA	0.14	0.67	NA	3.06	NA	0.09	9.15	NA	ND	NA	NA	NA	25.4
ART0212-6	PA B4 BOB x V (m)	43.4	NA	0.1	ND	NA	0.13	9.73	NA	1.83	NA	ND	0.36	NA	ND	NA	NA	NA	55.5
ART0212-7	PA JR x MT - 15 (m)	26.7	NA	ND	1.84	NA	ND	7.16	NA	5.67	NA	ND	0.42	NA	ND	NA	14.5	0.1	41.8

*ND: Not Detected (<0.05%, 0.01 mg/g or mL)

Results reported on a percent by weight basis using the full moisture content weight of the product as received by Pure Analytics.

Analytical Method: Methanol, IPA or Ethanol extraction using sonication with analysis by HPLC-DAD.

Certificate of Analysis- Cannabis

Sample Name: PA V1 (f)

Client Name: ART0212

Sample I.D.: ART0212-1

Sample Type Veg

Date Received: 6/1/2018

Date Tested: 6/8/2018

Date Reported: 6/12/2018

QC Batch(es):

PA13380

Cannabinoid Analysis: Method: Extraction by Methanol, IPA or Ethanol with sonication and HPLC-DAD and GC-FID analysis

THC	THCA	d-8 THC	CBD	CBDa	CBN	CBC	CBCa	CBG	CBGa	CBL	THCV	THCVA	CBDV	CBDVa	Total THC*	Total
% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.
0.43 %	NA	0.02 %	ND	NA	0.02 %	0.02 %	NA	0.12 %	NA	0.01 %	1.54 %	NA	NA	# VALUE!	0.44 %	#####
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
4.3	NA	0.2	ND	NA	0.2	0.2	NA	1.2	NA	0.1	15.4	NA	ND	NA	4.4	21.5
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0

*Total THC=(THCA * 0.877) + THC + d-8 THC

Tests Performed: **Cannabinoids - Veg**

Microbiology Analysis:

Methods: Aerobic Plate Count- AOAC 990.12; Total Coliform/E.coli- AOAC 991.14; Total Yeast/Mold- AOAC 997.02; Salmonella- OMA 2014.01; Psuedomonas- FDA BAM; Berkeley-compliant

Terpene Analysis:

Method: Methanol Extraction with Sonication and GC-FID Analysis

Pesticides Analysis:

Method: Acetone extraction with sonication, SPE clean-up, LCMSMS and GC-ECD analysis

Analysis	CFU/g	Compound	% wt.	Compound	Result	(ppm)	Report Limit (ppm)	Compound	Result	(ppm)	Report Limit (ppm)								
Aerobic plate count	NA	α-Pinene	NA	CA CATEGORY I (all sample types)				CA CATEGORY II (Inhale (Other) Pyrethrins)											
Total coliform	NA	Camphene	NA	Aldicarb	NA	0.02		Carbaryl	NA	0.50	0.50								
E. coli	NA	β-Pinene	NA	Carbofuran	NA	0.01		Chlorantraniliprole	NA	10.00	40.00								
Total yeast & mold	NA	β-Myrcene	NA	Chlordane	NA	0.01		Clofentezine	NA	0.10	0.50								
Salmonella	NA	3-Carene	NA	Chlorfenapyr	NA	0.02		Diazinon	NA	0.10	0.20								
Pseudomonas	NA	R-Limonene	NA	Chlorpyrifos	NA	0.01		Dimethomorph	NA	2.00	20.00								
Aspergillus	NA	Eucalyptol	NA	Coumaphos	NA	0.50		Etoxazole	NA	0.10	1.50								
Moisture %		Ocimene	NA	Daminozide	NA	0.01		Fenhexamid	NA	0.10	10.00								
Residual Solvent:		γ-Terpinene	NA	Dichlorvos	NA	0.01		Fenpyroximate	NA	0.10	2.00								
		Terpinolene	NA	Dimethoate	NA	0.10		Flonicamid	NA	0.10	2.00								
		Linalool	NA	Ethoprop	NA	0.10		Hexythiazox	NA	0.10	2.00								
Compound	(ppm)	Fenchol	NA	Etofenprox	NA	0.01		Imidacloprid	NA	5.00	3.00								
n-butane	NA	(+)-Pulegone	NA	Fenoxycarb	NA	0.02		Kresoxim-methyl	NA	0.10	1.00								
n-pentane	NA	Menthol	NA	Fipronil	NA	0.02		Malathion	NA	0.50	5.00								
acetone	NA	Borneol	NA	Imazilil	NA	0.10		Metalaxyl	NA	2.00	15.00								
ethanol	NA	α-Terpineol	NA	Methiocarb	NA	0.10		Methomyl	NA	1.00	0.10								
2-methyl butane	NA	Geraniol	NA	Parathion-methyl	NA	0.02		Myclobutanil	NA	0.10	9.00								
n-hexane	NA	β-Caryophyllene	NA	Mevinphos	NA	0.01		Naled	NA	0.10	0.50								
methanol	NA	α-Humulene	NA	Paclobutrazole	NA	0.01		Oxamyl	NA	0.50	0.20								
2-propanol	NA	Valencene	NA	Propoxur	NA	0.01		Permethrin	NA	0.50	20.00								
2-methyl propane	NA	Farnesene	NA	Spiroxamine	NA	0.01		Piperonyl butoxide	NA	3.00	0.20								
3-methyl-1-butanol	NA	trans-Nerolidol	NA	Thiacloprid	NA	0.02		Prallethrin	NA	0.10	0.40								
1-butanol	NA	cis-Nerolidol	NA	CA CATEGORY II (Inhale (Other) Pyrethrins)				Pyrethrins	NA	0.50	1.00								
1-pentanol	NA	Guaiol	NA	Abamectin	NA	0.10	0.30	Pyridaben	NA	0.10	3.00								
2-butanol	NA	α-Bisabolol	NA	Acephate	NA	0.10	5.00	Resmethrin	NA	NA	NA								
1-propanol	NA	Eicosane	NA	Azoxystrobin	NA	0.10	40.0	Spinatoram	NA	0.10	3.00								
acetonitrile	NA	Camphor	NA	Bifenazate	NA	0.10	5.00	Spinosad	NA	0.10	3.00								
ethyl acetate	NA	L-Fenchone	NA	Bifenthrin	NA	3.00	0.50	Spiromesifen	NA	0.10	12.00								
n-heptane	NA	Sabinene	NA	Boscalid	NA	0.10	10.00	Spirotetramat	NA	0.10	13.00								
2-methyl-1-propanol	NA	β-Caryoph. Ox.	NA	β-Cyfluthrin	NA	2.00	1.00	Tebuconazole	NA	0.10	2.00								
MTBE	NA	Phytol	NA	λ-Cyhalothrin	NA	NA	NA	Trifloxystrobin	NA	0.01	30.00								
ether	NA	a-Phellandrene	NA	Cypermethrin	NA	1.00	1.00	Thiamethoxam	NA	5.00	4.50								
toluene	NA	Total %	NA	The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.															
4-methyl-2-pentanone	NA																		
Total xylenes	NA																		
propane	NA																		
1-butanone	NA																		
Total ppm	0.0																		
		Testing performed by:																	
		Pure Analytics																	
		5468 Skylane Blvd Ste 102																	
		Santa Rosa, CA 95403																	

Testing performed by:

Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403

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ND: Not Detected

NA: Not Applicable, Test Not Performed

Approved by: *Samantha J. Miller*

Certificate of Analysis- Cannabis

Sample Name: PA V2 (f)

Client Name: ART0212

Sample I.D.: ART0212-2

Sample Type Veg

Date Received: 6/1/2018

Date Tested: 6/8/2018

Date Reported: 6/12/2018

QC Batch(es):

PA13380

Cannabinoid Analysis: Method: Extraction by Methanol, IPA or Ethanol with sonication and HPLC-DAD and GC-FID analysis

THC	THCA	d-8 THC	CBD	CBDA	CBN	CBC	CBCA	CBG	CBGA	CBL	THCV	THCVA	CBDV	CBDVA	Total THC*	Total
% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.
0.70 %	NA	0.01 %	ND	NA	0.02 %	0.03 %	NA	0.27 %	NA	0.02 %	1.67 %	NA	NA	# VALUE!	0.71 %	#####
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
7.0	NA	0.1	ND	NA	0.2	0.3	NA	2.7	NA	0.2	16.7	NA	ND	NA	7.1	27.3
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0

*Total THC=(THCA * 0.877) + THC + d-8 THC

Tests Performed: Cannabinoids - Veg

Microbiology Analysis:

Methods: Aerobic Plate Count- AOAC 990.12; Total Coliform/E.coli- AOAC 991.14; Total Yeast/Mold- AOAC 997.02; Salmonella- OMA 2014.01; Psuedomonas- FDA BAM; Berkeley-compliant

Terpene Analysis:

Method: Methanol Extraction with Sonication and GC-FID Analysis

Pesticides Analysis:

Method: Acetone extraction with sonication, SPE clean-up, LCMSMS and GC-ECD analysis

Analysis	CFU/g	Compound	% wt.	Compound	Result	(ppm)	Report Limit (ppm)	Compound	Result	(ppm)	Report Limit (ppm)
Aerobic plate count	NA	α-Pinene	NA	CA CATEGORY I (all sample types)				(Inhale (Other))			
Total coliform	NA	Camphene	NA	Aldicarb	NA	0.02		Carbaryl	NA	0.50	0.50
E. coli	NA	β-Pinene	NA	Carbofuran	NA	0.01		Chlorantraniliprole	NA	10.00	40.00
Total yeast & mold	NA	β-Myrcene	NA	Chlordane	NA	0.01		Clofentezine	NA	0.10	0.50
Salmonella	NA	3-Carene	NA	Chlorfenapyr	NA	0.02		Diazinon	NA	0.10	0.20
Pseudomonas	NA	R-Limonene	NA	Chlorpyrifos	NA	0.01		Dimethomorph	NA	2.00	20.00
Aspergillus	NA	Eucalyptol	NA	Coumaphos	NA	0.50		Etoxazole	NA	0.10	1.50
Moisture %		Ocimene	NA	Daminozide	NA	0.01		Fenhexamid	NA	0.10	10.00
Residual Solvent:		γ-Terpinene	NA	Dichlorvos	NA	0.01		Fenpyroximate	NA	0.10	2.00
		Terpinolene	NA	Dimethoate	NA	0.10		Flonicamid	NA	0.10	2.00
	Method: Full evaporation technique by GC-MS-FID.	Linalool	NA	Ethoprop	NA	0.10		Hexythiazox	NA	0.10	2.00
Compound	(ppm)	Fenchol	NA	Etofenprox	NA	0.01		Imidacloprid	NA	5.00	3.00
n-butane	NA	(+)-Pulegone	NA	Fenoxycarb	NA	0.02		Kresoxim-methyl	NA	0.10	1.00
n-pentane	NA	Menthol	NA	Fipronil	NA	0.02		Malathion	NA	0.50	5.00
acetone	NA	Borneol	NA	Imazilil	NA	0.10		Metalaxyl	NA	2.00	15.00
ethanol	NA	α-Terpineol	NA	Methiocarb	NA	0.10		Methomyl	NA	1.00	0.10
2-methyl butane	NA	Geraniol	NA	Parathion-methyl	NA	0.02		Myclobutanil	NA	0.10	9.00
n-hexane	NA	β-Caryophyllene	NA	Mevinphos	NA	0.01		Naled	NA	0.10	0.50
methanol	NA	α-Humulene	NA	Paclobutrazole	NA	0.01		Oxamyl	NA	0.50	0.20
2-propanol	NA	Valencene	NA	Propoxur	NA	0.01		Permethrin	NA	0.50	20.00
2-methyl propane	NA	Farnesene	NA	Spiroxamine	NA	0.01		Piperonyl butoxide	NA	3.00	0.20
3-methyl-1-butanol	NA	trans-Nerolidol	NA	Thiacloprid	NA	0.02		Prallethrin	NA	0.10	0.40
1-butanol	NA	cis-Nerolidol	NA	CA CATEGORY II (Inhale (Other))				Pyrethrins	NA	0.50	1.00
1-pentanol	NA	Guaiol	NA	Abamectin	NA	0.10	0.30	Pyridaben	NA	0.10	3.00
2-butanol	NA	α-Bisabolol	NA	Acephate	NA	0.10	5.00	Resmethrin	NA	NA	NA
1-propanol	NA	Eicosane	NA	Azoxystrobin	NA	0.10	40.00	Spinatoram	NA	0.10	3.00
acetonitrile	NA	Camphor	NA	Bifenazate	NA	0.10	5.00	Spinosad	NA	0.10	3.00
ethyl acetate	NA	L-Fenchone	NA	Bifenthrin	NA	3.00	0.50	Spiromesifen	NA	0.10	12.00
n-heptane	NA	Sabinene	NA	Boscalid	NA	0.10	10.00	Spirotetramat	NA	0.10	13.00
2-methyl-1-propanol	NA	β-Caryoph. Ox.	NA	β-Cyfluthrin	NA	2.00	1.00	Tebuconazole	NA	0.10	2.00
MTBE	NA	Phytol	NA	λ-Cyhalothrin	NA	NA	NA	Trifloxystrobin	NA	0.01	30.00
ether	NA	a-Phellandrene	NA	Cypermethrin	NA	1.00	1.00	Thiamethoxam	NA	5.00	4.50
toluene	NA	Total %	NA								
4-methyl-2-pentanone	NA										
Total xylenes	NA										
propane	NA										
1-butanone	NA										
Total ppm	0.0										
		Testing performed by:									
		Pure Analytics									
		5468 Skylane Blvd Ste 102									
		Santa Rosa, CA 95403									
The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.											

Testing performed by:

Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403

The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.

ND: Not Detected

NA: Not Applicable, Test Not Performed

Approved by: *Samantha J. Miller*

Certificate of Analysis- Cannabis

Sample Name: PA V3 (f-short)

Client Name: ART0212

Sample I.D.: ART0212-3

Sample Type: Veg

Date Received: 6/1/2018

Date Tested: 6/8/2018

Date Reported: 6/12/2018

QC Batch(es):

PA13380

Cannabinoid Analysis: Method: Extraction by Methanol, IPA or Ethanol with sonication and HPLC-DAD and GC-FID analysis

THC	THCA	d-8 THC	CBD	CBDA	CBN	CBC	CBCA	CBG	CBGA	CBL	THCV	THCVA	CBDV	CBDVA	Total THC*	Total
% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.
0.58 %	NA	0.01 %	ND	NA	0.02 %	0.04 %	NA	0.18 %	NA	0.02 %	0.84 %	NA	NA	# VALUE!	0.59 %	#####
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
5.8	NA	0.1	ND	NA	0.2	0.4	NA	1.8	NA	0.2	8.4	NA	ND	NA	5.9	16.8
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0

*Total THC=(THCA * 0.877) + THC + d-8 THC

Tests Performed: Cannabinoids - Veg

Microbiology Analysis:

Methods: Aerobic Plate Count- AOAC 990.12; Total Coliform/E.coli- AOAC 991.14; Total Yeast/Mold- AOAC 997.02; Salmonella- OMA 2014.01; Psuedomonas- FDA BAM; Berkeley-compliant

Terpene Analysis:

Method: Methanol Extraction with Sonication and GC-FID Analysis

Pesticides Analysis:

Method: Acetone extraction with sonication, SPE clean-up, LCMSMS and GC-ECD analysis

Analysis	CFU/g	Compound	% wt.	Compound	Result	(ppm)	Report Limit (ppm)	Compound	Result	(ppm)	Report Limit (ppm)								
Aerobic plate count	NA	α-Pinene	NA	CA CATEGORY I (all sample types)				CA CATEGORY II (Inhale (Other)											
Total coliform	NA	Camphene	NA	Aldicarb	NA	0.02		Carbaryl	NA	0.50	0.50								
E. coli	NA	β-Pinene	NA	Carbofuran	NA	0.01		Chlorantraniliprole	NA	10.00	40.00								
Total yeast & mold	NA	β-Myrcene	NA	Chlordane	NA	0.01		Clofentezine	NA	0.10	0.50								
Salmonella	NA	3-Carene	NA	Chlorfenapyr	NA	0.02		Diazinon	NA	0.10	0.20								
Pseudomonas	NA	R-Limonene	NA	Chlorpyrifos	NA	0.01		Dimethomorph	NA	2.00	20.00								
Aspergillus	NA	Eucalyptol	NA	Coumaphos	NA	0.50		Etoxazole	NA	0.10	1.50								
Moisture %		Ocimene	NA	Daminozide	NA	0.01		Fenhexamid	NA	0.10	10.00								
Residual Solvent:		γ-Terpinene	NA	Dichlorvos	NA	0.01		Fenpyroximate	NA	0.10	2.00								
		Terpinolene	NA	Dimethoate	NA	0.10		Flonicamid	NA	0.10	2.00								
	Method: Full evaporation technique by GC-MS-FID.	Linalool	NA	Ethoprop	NA	0.10		Hexythiazox	NA	0.10	2.00								
Compound	(ppm)	Fenchol	NA	Etofenprox	NA	0.01		Imidacloprid	NA	5.00	3.00								
n-butane	NA	(+)-Pulegone	NA	Fenoxycarb	NA	0.02		Kresoxim-methyl	NA	0.10	1.00								
n-pentane	NA	Menthol	NA	Fipronil	NA	0.02		Malathion	NA	0.50	5.00								
acetone	NA	Borneol	NA	Imazilil	NA	0.10		Metalaxyl	NA	2.00	15.00								
ethanol	NA	α-Terpineol	NA	Methiocarb	NA	0.10		Methomyl	NA	1.00	0.10								
2-methyl butane	NA	Geraniol	NA	Parathion-methyl	NA	0.02		Myclobutanil	NA	0.10	9.00								
n-hexane	NA	β-Caryophyllene	NA	Mevinphos	NA	0.01		Naled	NA	0.10	0.50								
methanol	NA	α-Humulene	NA	Paclobutrazole	NA	0.01		Oxamyl	NA	0.50	0.20								
2-propanol	NA	Valencene	NA	Propoxur	NA	0.01		Permethrin	NA	0.50	20.00								
2-methyl propane	NA	Farnesene	NA	Spiroxamine	NA	0.01		Piperonyl butoxide	NA	3.00	0.20								
3-methyl-1-butanol	NA	trans-Nerolidol	NA	Thiacloprid	NA	0.02		Prallethrin	NA	0.10	0.40								
1-butanol	NA	cis-Nerolidol	NA	CA CATEGORY II (Inhale (Other)				Pyrethrins	NA	0.50	1.00								
1-pentanol	NA	Guaiol	NA	Abamectin	NA	0.10	0.30	Pyridaben	NA	0.10	3.00								
2-butanol	NA	α-Bisabolol	NA	Acephate	NA	0.10	5.00	Resmethrin	NA	NA	NA								
1-propanol	NA	Eicosane	NA	Azoxystrobin	NA	0.10	40.00	Spinatoram	NA	0.10	3.00								
acetonitrile	NA	Camphor	NA	Bifenazate	NA	0.10	5.00	Spinosad	NA	0.10	3.00								
ethyl acetate	NA	L-Fenchone	NA	Bifenthrin	NA	3.00	0.50	Spiromesifen	NA	0.10	12.00								
n-heptane	NA	Sabinene	NA	Boscalid	NA	0.10	10.00	Spirotetramat	NA	0.10	13.00								
2-methyl-1-propanol	NA	β-Caryoph. Ox.	NA	β-Cyfluthrin	NA	2.00	1.00	Tebuconazole	NA	0.10	2.00								
MTBE	NA	Phytol	NA	λ-Cyhalothrin	NA	NA	NA	Trifloxystrobin	NA	0.01	30.00								
ether	NA	a-Phellandrene	NA	Cypermethrin	NA	1.00	1.00	Thiamethoxam	NA	5.00	4.50								
toluene	NA	Total %	NA	The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.															
4-methyl-2-pentanone	NA																		
Total xylenes	NA																		
propane	NA																		
1-butanone	NA																		
Total ppm	0.0																		
		Testing performed by:																	
		Pure Analytics																	
		5468 Skylane Blvd Ste 102																	
		Santa Rosa, CA 95403																	

Testing performed by:

Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403

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ND: Not Detected

NA: Not Applicable, Test Not Performed

Approved by: *Samantha J. Miller*

Certificate of Analysis- Cannabis

Sample Name: PA V4 (m)

Client Name: ART0212

Sample I.D.: ART0212-4

Sample Type: Veg

Date Received: 6/1/2018

Date Tested: 6/8/2018

Date Reported: 6/12/2018

QC Batch(es):

PA13380

Cannabinoid Analysis: Method: Extraction by Methanol, IPA or Ethanol with sonication and HPLC-DAD and GC-FID analysis

THC	THCA	d-8 THC	CBD	CBDA	CBN	CBC	CBCA	CBG	CBGA	CBL	THCV	THCVA	CBDV	CBDVA	Total THC*	Total
% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.
0.74 %	NA	0.01 %	ND	NA	ND	0.07 %	NA	0.16 %	NA	0.00 %	0.80 %	NA	NA	# VALUE!	0.75 %	#####
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
7.4	NA	0.1	ND	NA	ND	0.7	NA	1.6	NA	0.0	8.0	NA	ND	NA	7.5	17.8
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0

*Total THC=(THCA * 0.877) + THC + d-8 THC

Tests Performed: Cannabinoids - Veg

Microbiology Analysis:

Methods: Aerobic Plate Count- AOAC 990.12; Total Coliform/E.coli- AOAC 991.14; Total Yeast/Mold- AOAC 997.02; Salmonella- OMA 2014.01; Pseudomonas- FDA BAM; Berkeley-compliant

Terpene Analysis:

Method: Methanol Extraction with Sonication and GC-FID Analysis

Pesticides Analysis:

Method: Acetone extraction with sonication, SPE clean-up, LCMSMS and GC-ECD analysis

Analysis	CFU/g	Compound	% wt.	Compound	Result	(ppm)	Report Limit (ppm)	Compound	Result	(ppm)	Report Limit (ppm)
Aerobic plate count	NA	α-Pinene	NA	CA CATEGORY I (all sample types)				CA CATEGORY II (Inhale (Other) Pyrethrins)			
Total coliform	NA	Camphene	NA	Aldicarb	NA	0.02	0.02	Carbaryl	NA	0.50	0.50
E. coli	NA	β-Pinene	NA	Carbofuran	NA	0.01	0.01	Chlorantraniliprole	NA	10.00	40.00
Total yeast & mold	NA	β-Myrcene	NA	Chlordane	NA	0.01	0.01	Clofentezine	NA	0.10	0.50
Salmonella	NA	3-Carene	NA	Chlorfenapyr	NA	0.02	0.02	Diazinon	NA	0.10	0.20
Pseudomonas	NA	R-Limonene	NA	Chlorpyrifos	NA	0.01	0.01	Dimethomorph	NA	2.00	20.00
Aspergillus	NA	Eucalyptol	NA	Coumaphos	NA	0.50	0.50	Etoxazole	NA	0.10	1.50
Moisture %		Ocimene	NA	Daminozide	NA	0.01	0.01	Fenhexamid	NA	0.10	10.00
Residual Solvent:		γ-Terpinene	NA	Dichlorvos	NA	0.01	0.01	Fenpyroximate	NA	0.10	2.00
		Terpinolene	NA	Dimethoate	NA	0.10	0.10	Flonicamid	NA	0.10	2.00
		Linalool	NA	Ethoprop	NA	0.10	0.10	Hexythiazox	NA	0.10	2.00
Compound	(ppm)	Fenchol	NA	Etofenprox	NA	0.01	0.01	Imidacloprid	NA	5.00	3.00
n-butane	NA	(+)-Pulegone	NA	Fenoxycarb	NA	0.02	0.02	Kresoxim-methyl	NA	0.10	1.00
n-pentane	NA	Menthol	NA	Fipronil	NA	0.02	0.02	Malathion	NA	0.50	5.00
acetone	NA	Borneol	NA	Imazilil	NA	0.10	0.10	Metalaxyl	NA	2.00	15.00
ethanol	NA	α-Terpineol	NA	Methiocarb	NA	0.10	0.10	Methomyl	NA	1.00	0.10
2-methyl butane	NA	Geraniol	NA	Parathion-methyl	NA	0.02	0.02	Myclobutanil	NA	0.10	9.00
n-hexane	NA	β-Caryophyllene	NA	Mevinphos	NA	0.01	0.01	Naled	NA	0.10	0.50
methanol	NA	α-Humulene	NA	Paclobutrazole	NA	0.01	0.01	Oxamyl	NA	0.50	0.20
2-propanol	NA	Valencene	NA	Propoxur	NA	0.01	0.01	Permethrin	NA	0.50	20.00
2-methyl propane	NA	Farnesene	NA	Spiroxamine	NA	0.01	0.01	Piperonyl butoxide	NA	3.00	0.20
3-methyl-1-butanol	NA	trans-Nerolidol	NA	Thiacloprid	NA	0.02	0.02	Prallethrin	NA	0.10	0.40
1-butanol	NA	cis-Nerolidol	NA	CA CATEGORY II (Inhale (Other) Pyrethrins)				Pyrethrins	NA	0.50	1.00
1-pentanol	NA	Guaiol	NA	Abamectin	NA	0.10	0.30	Pyridaben	NA	0.10	3.00
2-butanol	NA	α-Bisabolol	NA	Acephate	NA	0.10	5.00	Resmethrin	NA	NA	NA
1-propanol	NA	Eicosane	NA	Azoxystrobin	NA	0.10	40.00	Spinatoram	NA	0.10	3.00
acetonitrile	NA	Camphor	NA	Bifenazate	NA	0.10	5.00	Spinosad	NA	0.10	3.00
ethyl acetate	NA	L-Fenchone	NA	Bifenthrin	NA	3.00	0.50	Spiromesifen	NA	0.10	12.00
n-heptane	NA	Sabinene	NA	Boscalid	NA	0.10	10.00	Spirotetramat	NA	0.10	13.00
2-methyl-1-propanol	NA	β-Caryoph. Ox.	NA	β-Cyfluthrin	NA	2.00	1.00	Tebuconazole	NA	0.10	2.00
MTBE	NA	Phytol	NA	Λ-Cyhalothrin	NA	NA	NA	Trifloxystrobin	NA	0.01	30.00
ether	NA	a-Phellandrene	NA	Cypermethrin	NA	1.00	1.00	Thiamethoxam	NA	5.00	4.50
toluene	NA	Total %	NA								
4-methyl-2-pentanone	NA										
Total xylenes	NA										
propane	NA										
1-butanone	NA										
Total ppm	0.0										
Testing performed by:											
Pure Analytics											
5468 Skylane Blvd Ste 102											
Santa Rosa, CA 95403											
The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.											

Testing performed by:

 Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403

The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.

ND: Not Detected

NA: Not Applicable, Test Not Performed

 Approved by: *Samantha J. Miller*

Certificate of Analysis- Cannabis

Sample Name: PA V5 (m)

Client Name: ART0212

Sample I.D.: ART0212-5

Sample Type Veg

Date Received: 6/1/2018

Date Tested: 6/8/2018

Date Reported: 6/12/2018

QC Batch(es):

PA13380

Cannabinoid Analysis: Method: Extraction by Methanol, IPA or Ethanol with sonication and HPLC-DAD and GC-FID analysis

THC	THCA	d-8 THC	CBD	CBDA	CBN	CBC	CBCA	CBG	CBGA	CBL	THCV	THCVA	CBDV	CBDVA	Total THC*	Total
% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.
1.23 %	NA	ND	ND	NA	0.01 %	0.07 %	NA	0.31 %	NA	0.01 %	0.92 %	NA	NA	# VALUE!	1.23 %	#####
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
12.3	NA	ND	ND	NA	0.1	0.7	NA	3.1	NA	0.1	9.2	NA	ND	NA	12.3	25.4
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0

*Total THC=(THCA * 0.877) + THC + d-8 THC

Tests Performed: Cannabinoids - Veg

Microbiology Analysis:

Methods: Aerobic Plate Count- AOAC 990.12; Total Coliform/E.coli- AOAC 991.14; Total Yeast/Mold- AOAC 997.02; Salmonella- OMA 2014.01; Psuedomonas- FDA BAM; Berkeley-compliant

Terpene Analysis:

Method: Methanol Extraction with Sonication and GC-FID Analysis

Pesticides Analysis:

Method: Acetone extraction with sonication, SPE clean-up, LCMSMS and GC-ECD analysis

Analysis	CFU /g	Compound	% wt.	Compound	Result	(ppm)	Report Limit (ppm)	Compound	Result	(ppm)	Report Limit (ppm)	
Aerobic plate count	NA	α-Pinene	NA	CA CATEGORY I				(Inhale (Other))				
Total coliform	NA	Camphene	NA	Aldicarb	NA	0.02		Carbaryl	NA	0.50	0.50	
E. coli	NA	β-Pinene	NA	Carbofuran	NA	0.01		Chlorantraniliprole	NA	10.00	40.00	
Total yeast & mold	NA	β-Myrcene	NA	Chlordane	NA	0.01		Clofentezine	NA	0.10	0.50	
Salmonella	NA	3-Carene	NA	Chlorfenapyr	NA	0.02		Diazinon	NA	0.10	0.20	
Pseudomonas	NA	R-Limonene	NA	Chlorpyrifos	NA	0.01		Dimethomorph	NA	2.00	20.00	
Aspergillus	NA	Eucalyptol	NA	Coumaphos	NA	0.50		Etoxazole	NA	0.10	1.50	
Moisture %		Ocimene	NA	Daminozide	NA	0.01		Fenhexamid	NA	0.10	10.00	
Residual Solvent:		γ-Terpinene	NA	Dichlorvos	NA	0.01		Fenpyroximate	NA	0.10	2.00	
		Terpinolene	NA	Dimethoate	NA	0.10		Flonicamid	NA	0.10	2.00	
		Linalool	NA	Ethoprop	NA	0.10		Hexythiazox	NA	0.10	2.00	
		Fenchol	NA	Etofenprox	NA	0.01		Imidacloprid	NA	5.00	3.00	
		(+)-Pulegone	NA	Fenoxycarb	NA	0.02		Kresoxim-methyl	NA	0.10	1.00	
n-butane	NA	Menthol	NA	Fipronil	NA	0.02		Malathion	NA	0.50	5.00	
n-pentane	NA											
acetone	NA	Borneol	NA	Imazilil	NA	0.10		Metalaxyl	NA	2.00	15.00	
ethanol	NA	α-Terpineol	NA	Methiocarb	NA	0.10		Methomyl	NA	1.00	0.10	
2-methyl butane	NA	Geraniol	NA	Parathion-methyl	NA	0.02		Myclobutanil	NA	0.10	9.00	
n-hexane	NA	β-Caryophyllene	NA	Mevinphos	NA	0.01		Naled	NA	0.10	0.50	
methanol	NA	α-Humulene	NA	Paclobutrazole	NA	0.01		Oxamyl	NA	0.50	0.20	
2-propanol	NA	Valencene	NA	Propoxur	NA	0.01		Permethrin	NA	0.50	20.00	
2-methyl propane	NA	Farnesene	NA	Spiroxamine	NA	0.01		Piperonyl butoxide	NA	3.00	0.20	
3-methyl-1-butanol	NA	trans-Nerolidol	NA	Thiacloprid	NA	0.02		Prallethrin	NA	0.10	0.40	
1-butanol	NA	cis-Nerolidol	NA	CA CATEGORY II				(Inhale (Other))	Pyrethrins	NA	0.50	1.00
1-pentanol	NA	Guaiol	NA	Abamectin	NA	0.10	0.30	Pyridaben	NA	0.10	3.00	
2-butanol	NA	α-Bisabolol	NA	Acephate	NA	0.10	5.00	Resmethrin	NA	NA	NA	
1-propanol	NA	Eicosane	NA	Azoxystrobin	NA	0.10	40.00	Spinatoram	NA	0.10	3.00	
acetonitrile	NA	Camphor	NA	Bifenazate	NA	0.10	5.00	Spinosad	NA	0.10	3.00	
ethyl acetate	NA	L-Fenchone	NA	Bifenthrin	NA	3.00	0.50	Spiromesifen	NA	0.10	12.00	
n-heptane	NA	Sabinene	NA	Boscalid	NA	0.10	10.00	Spirotetramat	NA	0.10	13.00	
2-methyl-1-propanol	NA	β-Caryoph. Ox.	NA	β-Cyfluthrin	NA	2.00	1.00	Tebuconazole	NA	0.10	2.00	
MTBE	NA	Phytol	NA	Λ-Cyhalothrin	NA	NA	NA	Trifloxystrobin	NA	0.01	30.00	
ether	NA	a-Phellandrene	NA	Cypermethrin	NA	1.00	1.00	Thiamethoxam	NA	5.00	4.50	
toluene	NA	Total %	NA									
4-methyl-2-pentanone	NA											
Total xylenes	NA											
propane	NA											
1-butanone	NA											
Total ppm	0.0											
Testing performed by:				The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.								
Pure Analytics												
5468 Skylane Blvd Ste 102												
Santa Rosa, CA 95403												

Testing performed by:

Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403

The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.

ND: Not Detected

NA: Not Applicable, Test Not Performed

Approved by: *Samantha J. Miller*

Certificate of Analysis- Cannabis

Sample Name: PA B4 BOB x V (m)

Client Name: ART0212

Sample I.D.: ART0212-6

Sample Type: Veg

Date Received: 6/1/2018

Date Tested: 6/8/2018

Date Reported: 6/12/2018

QC Batch(es):

PA13380

Cannabinoid Analysis: Method: Extraction by Methanol, IPA or Ethanol with sonication and HPLC-DAD and GC-FID analysis

THC	THCA	d-8 THC	CBD	CBDa	CBN	CBC	CBCa	CBG	CBGa	CBL	THCV	THCVA	CBDV	CBDVa	Total THC*	Total
% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.
4.34 %	NA	0.01 %	ND	NA	0.01 %	0.97 %	NA	0.18 %	NA	ND	0.04 %	NA	NA	# VALUE!	4.35 %	####
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
43.4	NA	0.1	ND	NA	0.1	9.7	NA	1.8	NA	ND	0.4	NA	ND	NA	43.5	55.5
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0

*Total THC=(THCA * 0.877) + THC + d-8 THC

Tests Performed: Cannabinoids - Veg

Microbiology Analysis:

Methods: Aerobic Plate Count- AOAC 990.12; Total Coliform/E.coli- AOAC 991.14; Total Yeast/Mold- AOAC 997.02; Salmonella- OMA 2014.01; Psuedomonas- FDA BAM; Berkeley-compliant

Terpene Analysis:

Method: Methanol Extraction with Sonication and GC-FID Analysis

Pesticides Analysis:

Method: Acetone extraction with sonication, SPE clean-up, LCMSMS and GC-ECD analysis

Analysis	CFU/g	Compound	% wt.	Compound	Result	(ppm)	Report Limit (ppm)	Compound	Result	(ppm)	Report Limit (ppm)
Aerobic plate count	NA	α-Pinene	NA	CA CATEGORY I (all sample types)				CA CATEGORY II (Inhale (Other) Pyrethrins)			
Total coliform	NA	Camphene	NA	Aldicarb	NA	0.02	0.02	Carbaryl	NA	0.50	0.50
E. coli	NA	β-Pinene	NA	Carbofuran	NA	0.01	0.01	Chlorantraniliprole	NA	10.00	40.00
Total yeast & mold	NA	β-Myrcene	NA	Chlordane	NA	0.01	0.01	Clofentezine	NA	0.10	0.50
Salmonella	NA	3-Carene	NA	Chlorfenapyr	NA	0.02	0.02	Diazinon	NA	0.10	0.20
Pseudomonas	NA	R-Limonene	NA	Chlorpyrifos	NA	0.01	0.01	Dimethomorph	NA	2.00	20.00
Aspergillus	NA	Eucalyptol	NA	Coumaphos	NA	0.50	0.50	Etoxazole	NA	0.10	1.50
Moisture %		Ocimene	NA	Daminozide	NA	0.01	0.01	Fenhexamid	NA	0.10	10.00
Residual Solvent:		γ-Terpinene	NA	Dichlorvos	NA	0.01	0.01	Fenpyroximate	NA	0.10	2.00
		Terpinolene	NA	Dimethoate	NA	0.10	0.10	Flonicamid	NA	0.10	2.00
		Linalool	NA	Ethoprop	NA	0.10	0.10	Hexythiazox	NA	0.10	2.00
Compound	(ppm)	Fenchol	NA	Etofenprox	NA	0.01	0.01	Imidacloprid	NA	5.00	3.00
n-butane	NA	(+)-Pulegone	NA	Fenoxycarb	NA	0.02	0.02	Kresoxim-methyl	NA	0.10	1.00
n-pentane	NA	Menthol	NA	Fipronil	NA	0.02	0.02	Malathion	NA	0.50	5.00
acetone	NA	Borneol	NA	Imazilil	NA	0.10	0.10	Metalaxyl	NA	2.00	15.00
ethanol	NA	α-Terpineol	NA	Methiocarb	NA	0.10	0.10	Methomyl	NA	1.00	0.10
2-methyl butane	NA	Geraniol	NA	Parathion-methyl	NA	0.02	0.02	Myclobutanil	NA	0.10	9.00
n-hexane	NA	β-Caryophyllene	NA	Mevinphos	NA	0.01	0.01	Naled	NA	0.10	0.50
methanol	NA	α-Humulene	NA	Paclobutrazole	NA	0.01	0.01	Oxamyl	NA	0.50	0.20
2-propanol	NA	Valencene	NA	Propoxur	NA	0.01	0.01	Permethrin	NA	0.50	20.00
2-methyl propane	NA	Farnesene	NA	Spiroxamine	NA	0.01	0.01	Piperonyl butoxide	NA	3.00	0.20
3-methyl-1-butanol	NA	trans-Nerolidol	NA	Thiacloprid	NA	0.02	0.02	Prallethrin	NA	0.10	0.40
1-butanol	NA	cis-Nerolidol	NA	CA CATEGORY II (Inhale (Other) Pyrethrins)				Pyrethrins	NA	0.50	1.00
1-pentanol	NA	Guaiol	NA	Abamectin	NA	0.10	0.30	Pyridaben	NA	0.10	3.00
2-butanol	NA	α-Bisabolol	NA	Acephate	NA	0.10	5.00	Resmethrin	NA	NA	NA
1-propanol	NA	Eicosane	NA	Azoxystrobin	NA	0.10	40.00	Spinatoram	NA	0.10	3.00
acetonitrile	NA	Camphor	NA	Bifenazate	NA	0.10	5.00	Spinosad	NA	0.10	3.00
ethyl acetate	NA	L-Fenchone	NA	Bifenthrin	NA	3.00	0.50	Spiromesifen	NA	0.10	12.00
n-heptane	NA	Sabinene	NA	Boscalid	NA	0.10	10.00	Spirotetramat	NA	0.10	13.00
2-methyl-1-propanol	NA	β-Caryoph. Ox.	NA	β-Cyfluthrin	NA	2.00	1.00	Tebuconazole	NA	0.10	2.00
MTBE	NA	Phytol	NA	Λ-Cyhalothrin	NA	NA	NA	Trifloxystrobin	NA	0.01	30.00
ether	NA	a-Phellandrene	NA	Cypermethrin	NA	1.00	1.00	Thiamethoxam	NA	5.00	4.50
toluene	NA	Total %	NA								
4-methyl-2-pentanone	NA										
Total xylenes	NA	Testing performed by:									
propane	NA	Pure Analytics									
1-butanone	NA	5468 Skylane Blvd Ste 102									
Total ppm	0.0	Santa Rosa, CA 95403									
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Testing performed by:

Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403

The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.

ND: Not Detected

NA: Not Applicable, Test Not Performed

Approved by: *Samantha J. Miller*

Certificate of Analysis- Cannabis

Sample Name: PA JR x MT - 15 (m)

Client Name: ART0212

Sample I.D.: ART0212-7

Sample Type: Veg

Date Received: 6/1/2018

Date Tested: 6/8/2018

Date Reported: 6/12/2018

QC Batch(es):

PA13380

Cannabinoid Analysis: Method: Extraction by Methanol, IPA or Ethanol with sonication and HPLC-DAD and GC-FID analysis

THC	THCA	d-8 THC	CBD	CBDA	CBN	CBC	CBCA	CBG	CBGA	CBL	THCV	THCVA	CBDV	CBDVA	Total THC*	Total
% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.	% wt.
2.67 %	NA	ND	0.18 %	NA	ND	0.72 %	NA	0.57 %	NA	ND	0.04 %	NA	NA	# VALUE!	2.67 %	###
mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
26.7	NA	ND	1.8	NA	ND	7.2	NA	5.7	NA	ND	0.4	NA	ND	NA	26.7	41.8
mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL	mg/mL
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0

*Total THC=(THCA * 0.877) + THC + d-8 THC

Tests Performed: Cannabinoids - Veg

Microbiology Analysis:

Methods: Aerobic Plate Count- AOAC 990.12; Total Coliform/E.coli- AOAC 991.14; Total Yeast/Mold- AOAC 997.02; Salmonella- OMA 2014.01; Psuedomonas- FDA BAM; Berkeley-compliant

Terpene Analysis:

Method: Methanol Extraction with Sonication and GC-FID Analysis

Pesticides Analysis:

Method: Acetone extraction with sonication, SPE clean-up, LCMSMS and GC-ECD analysis

Analysis	CFU/g	Compound	% wt.	Compound	Result	(ppm)	Report Limit (ppm)	Compound	Result	(ppm)	Report Limit (ppm)
Aerobic plate count	NA	α-Pinene	NA	CA CATEGORY I (all sample types)				(Inhale (Other))			
Total coliform	NA	Camphene	NA	Aldicarb	NA	0.02	Carbaryl	NA	0.50	0.50	
E. coli	NA	β-Pinene	NA	Carbofuran	NA	0.01	Chlorantraniliprole	NA	10.00	40.00	
Total yeast & mold	NA	β-Myrcene	NA	Chlordane	NA	0.01	Clofentezine	NA	0.10	0.50	
Salmonella	NA	3-Carene	NA	Chlorfenapyr	NA	0.02	Diazinon	NA	0.10	0.20	
Pseudomonas	NA	R-Limonene	NA	Chlorpyrifos	NA	0.01	Dimethomorph	NA	2.00	20.00	
Aspergillus	NA	Eucalyptol	NA	Coumaphos	NA	0.50	Etoxazole	NA	0.10	1.50	
Moisture %		Ocimene	NA	Daminozide	NA	0.01	Fenhexamid	NA	0.10	10.00	
Residual Solvent:		γ-Terpinene	NA	Dichlorvos	NA	0.01	Fenpyroximate	NA	0.10	2.00	
		Terpinolene	NA	Dimethoate	NA	0.10	Flonicamid	NA	0.10	2.00	
	Method: Full evaporation technique by GC-MS-FID.	Linalool	NA	Ethoprop	NA	0.10	Hexythiazox	NA	0.10	2.00	
Compound	(ppm)	Fenchol	NA	Etofenprox	NA	0.01	Imidacloprid	NA	5.00	3.00	
n-butane	NA	(+)-Pulegone	NA	Fenoxycarb	NA	0.02	Kresoxim-methyl	NA	0.10	1.00	
n-pentane	NA	Menthol	NA	Fipronil	NA	0.02	Malathion	NA	0.50	5.00	
acetone	NA	Borneol	NA	Imazilil	NA	0.10	Metalaxyl	NA	2.00	15.00	
ethanol	NA	α-Terpineol	NA	Methiocarb	NA	0.10	Methomyl	NA	1.00	0.10	
2-methyl butane	NA	Geraniol	NA	Parathion-methyl	NA	0.02	Myclobutanil	NA	0.10	9.00	
n-hexane	NA	β-Caryophyllene	NA	Mevinphos	NA	0.01	Naled	NA	0.10	0.50	
methanol	NA	α-Humulene	NA	Paclobutrazole	NA	0.01	Oxamyl	NA	0.50	0.20	
2-propanol	NA	Valencene	NA	Propoxur	NA	0.01	Permethrin	NA	0.50	20.00	
2-methyl propane	NA	Farnesene	NA	Spiroxamine	NA	0.01	Piperonyl butoxide	NA	3.00	0.20	
3-methyl-1-butanol	NA	trans-Nerolidol	NA	Thiacloprid	NA	0.02	Prallethrin	NA	0.10	0.40	
1-butanol	NA	cis-Nerolidol	NA	CA CATEGORY II (Inhale (Other))				Pyrethrins	NA	0.50	1.00
1-pentanol	NA	Guaiol	NA	Abamectin	NA	0.10	0.30	Pyridaben	NA	0.10	3.00
2-butanol	NA	α-Bisabolol	NA	Acephate	NA	0.10	5.00	Resmethrin	NA	NA	NA
1-propanol	NA	Eicosane	NA	Azoxystrobin	NA	0.10	40.00	Spinatoram	NA	0.10	3.00
acetonitrile	NA	Camphor	NA	Bifenazate	NA	0.10	5.00	Spinosad	NA	0.10	3.00
ethyl acetate	NA	L-Fenchone	NA	Bifenthrin	NA	3.00	0.50	Spiromesifen	NA	0.10	12.00
n-heptane	NA	Sabinene	NA	Boscalid	NA	0.10	10.00	Spirotetramat	NA	0.10	13.00
2-methyl-1-propanol	NA	β-Caryoph. Ox.	NA	β-Cyfluthrin	NA	2.00	1.00	Tebuconazole	NA	0.10	2.00
MTBE	NA	Phytol	NA	λ-Cyhalothrin	NA	NA	NA	Trifloxystrobin	NA	0.01	30.00
ether	NA	a-Phellandrene	NA	Cypermethrin	NA	1.00	1.00	Thiamethoxam	NA	5.00	4.50
toluene	NA	Total %	NA								
4-methyl-2-pentanone	NA										
Total xylenes	NA	Testing performed by:									
propane	NA	Pure Analytics									
1-butanone	NA	5468 Skylane Blvd Ste 102									
Total ppm	0.0	Santa Rosa, CA 95403									
The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.											

Testing performed by:

Pure Analytics
 5468 Skylane Blvd Ste 102
 Santa Rosa, CA 95403

The results contained in this report only pertain to the specific sample submitted. This certificate may not be reproduced in full without permission from the laboratory.

ND: Not Detected

NA: Not Applicable, Test Not Performed

Approved by: *Samantha J. Miller*