

Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts
Sample Date: 1/13/2020
Analysis Date: 1/16/2020
Report Date: 1/21/2020

Metrc Batch ID: 1A4010300016315000021137 Metrc Sample ID: 1A4010300016315000021157 Harvest/Process Date: 1/11/2020 Report ID:

LS-200121-12

Potency

Potency Analysis Date: 1/16/2020 Potency Batch ID: CAN_011620A Potency Method: JAOAC 2015.1

80.5%

Total THC

0.319%

Total CBD

Samples: NXB-MSR-BPZ, FTM-JFG-CMR



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit:
Д9ТНС	Delta-9 Tetrahydrocannabinol	0.16	0.246	80.4	80.6	80.5	
THCA	Tetrahydrocannabinolic acid	0.16	0.00	ND	ND	ND	
CBD	Cannabidiol	0.16	9.76	0.303	0.334	0.319	•
CBDA	Cannabidiolic acid	0.16	0.00	ND	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
Δ8ΤΗC	Delta-8 Tetrahydrocannabinol*	0.16	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.16	18.0	1.16	1.40	1.28	•
CBG	Cannabigerol*	0.16	9.61	1.84	2.02	1.93	•
CBGA	Cannabigerolic acid*	0.16	0.00	ND	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
CBC	Cannabichromene*	0.16	5.54	1.43	1.51	1.47	•
CBCA	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
CBN	Cannabinol	0.16	9.83	0.331	0.365	0.348	•
Total THC	Δ9THC + (THCA × 0.877)		0.246	80.4	80.6	80.5	
Total CBD	CBD + (CBDA × 0.877)		9.76	0.303	0.334	0.319	•
Total			0.735	85.5	86.2	85.9	

Compliance

Pesticides	Within limits	Analysis Date: 1/17/2020	Pass 🕢
Solvents	Within limits	Analysis Date: 1/17/2020	Pass 🕢
Potency	Within limits	Analysis Date: 1/16/2020	Pass 🕢

Bryce Kidd, Ph.D.
Lab Director

Aaron Troyer
Chief Science Officer



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Farmer's Friend Extracts 6451 NF Colwood Wy Portland, OR 97218 503-442-8653

Sample Type: Extracts Sample Date: 1/13/2020 Analysis Date: 1/16/2020 Report Date: 1/21/2020

1A4010300016315000021137 Metrc Sample ID: 1A4010300016315000021157 Harvest/Process Date: 1/11/2020 Report ID:

LS-200121-12

Method: JAOAC 2015.1

Unit: %

Terpenes* Sample Data

Analyte	Avg.	Notes
β-Farnesene 2	2.72%	
β-Caryophyllene	2.56%	
Humulene	1.03%	
α-Bisabolol	0.161%	
Linalool	0.139%	
Limonene	0.129%	
Selinadiene	0.0899%	
Fenchol	0.0876%	
α-Terpineol	0.0872%	
β-Myrcene	0.0623%	
β-Ocimene	0.0351%	
Caryophyllene Oxide	0.0212%	
Terpinolene	0.0203%	
β-Pinene	0.0127%	
Eucalyptol	0.0120%	
Borneol	0.0108%	
α-Ocimene	0.00530%	
γ-Terpinene	0.00375%	
α-Terpinene	0.00371%	
Fenchone	0.00370%	
α-Pinene	0.00367%	
Δ3-Carene	0.00267%	
Camphene	0.000746%	
Azulene	ND	
Camphore	ND	
Cedrol	ND	
Cymene	ND	
Geraniol	ND	
Geranyl Acetate	ND	
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Terpene Analysis Date: 1/17/2020 Terpene Batch ID: TRP 011720A

Notes	

Analyte	Avg.	Notes	
Guaiol	ND		
Isoborneol	ND		
Isopulegol	ND		
Nerol	ND		
Pulegone	ND		
Sabinene	ND		
Sabinene Hydrate	ND		
Valencene	ND		
cis-Nerolidol	ND		
trans-Nerolidol	ND		
α-Cedrene	ND		
$\alpha\text{-Phellandrene}$	ND		
β-Farnesene 1	ND		
γ-Terpineol	ND		
Total	7.20%		



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Pesticides
Sample Data

Pesticides Analysis Date: 1/17/2020 Pesticides Batch ID: PST 011720A Method: EN 15662 Unit: μg/g (ppm) Pass 🕢

Analyte	FTM-JFG-CMR	NXB-MSR-BPZ	Limits	LOQ	Notes	Status
Abamectin	ND	ND	0.5	0.1		Pass
Acephate	ND	ND	0.4	0.1		Pass
Acequinocyl	ND	ND	2.0	1.5		Pass
Acetamiprid	ND	ND	0.2	0.1		Pass
Aldicarb	ND	ND	0.4	0.1		Pass
Azoxystrobin	ND	ND	0.2	0.1		Pass
Bifenazate	ND	ND	0.2	0.1		Pass
Bifenthrin	ND	ND	0.2	0.1		Pass
Boscalid	ND	ND	0.4	0.1		Pass
Carbaryl	ND	ND	0.2	0.1		Pass
Carbofuran	ND	ND	0.2	0.1		Pass
Chlorantraniliprole	ND	ND	0.2	0.1		Pass
Chlorfenapyr	ND	ND	1.0	0.1		Pass
Chlorpyrifos	ND	ND	0.2	0.1		Pass
Clofentezine	ND	ND	0.2	0.1		Pass
Cyfluthrin	ND	ND	1.0	0.5		Pass
Cypermethrin	ND	ND	1.0	0.1		Pass
Daminozide	ND	ND	1.0	0.5		Pass
Diazinon	ND	ND	0.2	0.1		Pass
Dichlorvos (DDVP)	ND	ND	1.0	0.5		Pass
Dimethoate	ND	ND	0.2	0.1		Pass
Ethoprophos	ND	ND	0.2	0.1		Pass
Etofenprox	ND	ND	0.4	0.1		Pass
Etoxazole	ND	ND	0.2	0.1		Pass
Fenoxycarb	ND	ND	0.2	0.1		Pass
Fenpyroximate	ND	ND	0.4	0.1		Pass
Fipronil	ND	ND	0.4	0.1		Pass
Flonicamid	ND	ND	1.0	0.1		Pass
Fludioxonil	ND	ND	0.4	0.1		Pass
Hexythiazox	ND	ND	1.0	0.1		Pass
Imazalil	ND	ND	0.2	0.1		Pass
Imidacloprid	ND	ND	0.4	0.1		Pass
Kresoxim-methyl	ND	ND	0.4	0.1		Pass
Malathion	ND	ND	0.2	0.1		Pass

Analyte	FTM-JFG-CMR	NXB-MSR-BPZ	Limits	LOQ	Notes	Status
Metalaxyl	ND	ND	0.2	0.1		Pass
Methiocarb	ND	ND	0.2	0.1		Pass
Methomyl	ND	ND	0.4	0.1		Pass
Methyl Parathion	ND	ND	0.2	0.2		Pass
MGK-264	ND	ND	0.2	0.2		Pass
Myclobutanil	ND	ND	0.2	0.1		Pass
Naled	ND	ND	0.5	0.2		Pass
0xamy1	ND	ND	1.0	0.1		Pass
Paclobutrazol	ND	ND	0.4	0.1		Pass
Permethrins	ND	ND	0.2	0.1		Pass
Phosmet	ND	ND	0.2	0.1		Pass
Piperonyl Butoxide	ND	ND	2.0	0.1		Pass
Prallethrin	ND	ND	0.2	0.1		Pass
Propiconazole	ND	ND	0.4	0.1		Pass
Propoxur	ND	ND	0.2	0.1		Pass
Pyrethrins	ND	ND	1.0	0.5		Pass
Pyridaben	ND	ND	0.2	0.1		Pass
Spinosad	ND	ND	0.2	0.1		Pass
Spiromesifen	ND	ND	0.2	0.1		Pass
Spirotetramat	ND	ND	0.2	0.1		Pass
Spiroxamine	ND	ND	0.4	0.1		Pass
Tebuconazole	ND	ND	0.4	0.1		Pass
Thiacloprid	ND	ND	0.2	0.1		Pass
Thiamethoxam	ND	ND	0.2	0.1		Pass
Trifloxystrobin	ND	ND	0.2	0.1		Pass



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LS-200121-12



Pesticides Quality Control Data

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	0.919	1.00	91.9	50 - 150	
Acephate	ND	0.1	0.773	1.00	77.3	50 - 150	
Acequinocyl	ND	1.5	0.437	1.00	43.7	50 - 150	LR
Acetamiprid	ND	0.1	1.22	1.00	122	50 - 150	
Aldicarb	ND	0.1	0.870	1.00	87.0	50 - 150	
Azoxystrobin	ND	0.1	0.919	1.00	91.9	50 - 150	
Bifenazate	ND	0.1	ND	1.00	2.23	50 - 150	LR
Bifenthrin	ND	0.1	0.631	1.00	63.1	50 - 150	
Boscalid	ND	0.1	0.643	1.00	64.3	50 - 150	
Carbaryl	ND	0.1	0.892	1.00	89.2	50 - 150	
Carbofuran	ND	0.1	1.18	1.00	118	50 - 150	
${\tt Chlorantraniliprole}$	ND	0.1	0.953	1.00	95.3	50 - 150	
Chlorfenapyr	ND	0.1	0.839	1.00	83.9	50 - 150	
Chlorpyrifos	ND	0.1	0.773	1.00	77.3	50 - 150	
Clofentezine	ND	0.1	0.690	1.00	69.0	50 - 150	
Cyfluthrin	ND	0.5	0.603	1.00	60.3	50 - 150	
Cypermethrin	ND	0.1	1.12	1.00	112	50 - 150	
Daminozide	ND	0.5	ND	1.00	3.51	10 - 150	LR
Diazinon	ND	0.1	1.02	1.00	102	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.785	1.00	78.5	50 - 150	
Dimethoate	ND	0.1	0.812	1.00	81.2	50 - 150	
Ethoprophos	ND	0.1	1.14	1.00	114	50 - 150	
Etofenprox	ND	0.1	0.616	1.00	61.6	50 - 150	
Etoxazole	ND	0.1	0.809	1.00	80.9	50 - 150	
Fenoxycarb	ND	0.1	1.10	1.00	110	50 - 150	
Fenpyroximate	ND	0.1	0.880	1.00	88.0	50 - 150	
Fipronil	ND	0.1	1.20	1.00	120	50 - 150	
Flonicamid	ND	0.1	1.06	1.00	106	50 - 150	
Fludioxonil	ND	0.1	0.816	1.00	81.6	50 - 150	
Hexythiazox	ND	0.1	1.05	1.00	105	50 - 150	
Imazalil	ND	0.1	0.900	1.00	90.0	50 - 150	
Imidacloprid	ND	0.1	0.959	1.00	95.9	50 - 150	
Kresoxim-methyl	ND	0.1	0.917	1.00	91.7	50 - 150	
Malathion	ND	0.1	0.999	1.00	99.9	50 - 150	

Pesticides QC Analysis Date: 1/17/2020 Pesticides QC Batch ID: PST 011720A Method: EN 15662 Unit: μg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Metalaxyl	ND	0.1	0.802	1.00	80.2	50 - 150	
Methiocarb	ND	0.1	0.943	1.00	94.3	50 - 150	
Methomyl	ND	0.1	0.721	1.00	72.1	50 - 150	
Methyl Parathion	ND	0.2	0.583	1.00	58.3	30 - 150	
MGK-264	ND	0.2	0.685	0.600	114	50 - 150	
Myclobutanil	ND	0.1	0.898	1.00	89.8	50 - 150	
Naled	ND	0.2	0.986	1.00	98.6	50 - 150	
0xamy1	ND	0.1	0.875	1.00	87.5	50 - 150	
Paclobutrazol	ND	0.1	0.944	1.00	94.4	50 - 150	
Permethrins	ND	0.1	0.792	1.00	79.2	50 - 150	
Phosmet	ND	0.1	0.767	1.00	76.7	50 - 150	
Piperonyl Butoxide	ND	0.1	0.747	1.00	74.7	50 - 150	
Prallethrin	ND	0.1	0.728	1.00	72.8	50 - 150	
Propiconazole	ND	0.1	0.900	1.00	90.0	50 - 150	
Propoxur	ND	0.1	1.04	1.00	104	50 - 150	
Pyrethrins	ND	0.5	0.985	1.00	98.5	50 - 150	
Pyridaben	ND	0.1	0.682	1.00	68.2	50 - 150	
Spinosad	ND	0.1	0.664	1.00	66.4	50 - 150	
Spiromesifen	ND	0.1	0.722	1.00	72.2	50 - 150	
Spirotetramat	ND	0.1	1.21	1.00	121	50 - 150	
Spiroxamine	ND	0.1	0.233	1.00	23.3	50 - 150	LR
Tebuconazole	ND	0.1	0.907	1.00	90.7	50 - 150	
Thiacloprid	ND	0.1	0.932	1.00	93.2	50 - 150	
Thiamethoxam	ND	0.1	0.869	1.00	86.9	50 - 150	
Trifloxystrobin	ND	0.1	1.37	1.00	137	50 - 150	



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LS-200121-12

Residual Solvents
Sample Data

Solvents Analysis Date: 1/17/2020 Solvents Batch ID: RES 011720A Method: EPA 5021A Unit: μg/g (ppm) Pass 🕢

Analyte	FTM-JFG-CMR	NXB-MSR-BPZ	RPD (%)	Limits	LOQ	Notes	Status
1,4-Dioxane	ND	ND	0.00	380.0	50.0		Pass
2-Butanol	ND	ND	0.00	5000.0	250.0		Pass
2-Ethoxyethanol	ND	ND	0.00	160.0	50.0		Pass
Acetone	ND	ND	0.00	5000.0	250.0		Pass
Acetonitrile	ND	ND	0.00	410.0	50.0		Pass
Benzene	ND	ND	0.00	2.0	2.0		Pass
Butanes	ND	ND	0.00	5000.0	250.0		Pass
Cumene	ND	ND	0.00	70.0	50.0		Pass
Cyclohexane	ND	ND	0.00	3880.0	50.0		Pass
Ethyl Acetate	ND	ND	0.00	5000.0	250.0		Pass
Ethyl Ether	ND	ND	0.00	5000.0	250.0		Pass
Ethylene Glycol	ND	ND	0.00	620.0	250.0		Pass
Ethylene Oxide	ND	ND	0.00	50.0	50.0		Pass
Heptane	ND	ND	0.00	5000.0	250.0		Pass
Hexanes	ND	ND	0.00	290.0	50.0		Pass
Isopropanol (2-Propanol)	ND	ND	0.00	5000.0	50.0		Pass
Isopropyl Acetate	ND	ND	0.00	5000.0	250.0		Pass
Methanol	ND	ND	0.00	3000.0	250.0		Pass
Dichloromethane	ND	ND	0.00	600.0	50.0		Pass
Pentanes	ND	ND	0.00	5000.0	250.0		Pass
Propane	ND	ND	0.00	5000.0	250.0		Pass
Tetrahydrofuran	ND	ND	0.00	720.0	50.0		Pass
Toluene	ND	ND	0.00	890.0	50.0		Pass
Xylenes	ND	ND	0.00	2170.0	50.0		Pass



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Residual Solvents
Quality Control Data

Solvents QC Analysis Date: 1/17/2020 Solvents QC Batch ID: RES 011720A Method: EPA 5021A Unit: μg/g (ppm)

2-Butanol ND 258.8 927 1888 92.7 78 - 138 2-Ethoxyethanol ND 58.8 861 1888 86.1 78 - 138 Acetone ND 258.8 919 1888 93.7 1888 93.7 78 - 138 Benzene ND 258.8 16.9 220.8 84.5 78 - 138 Butanes ND 258.8 894 1888 1888 1888 78 - 138 Cumene ND 58.8 894 1888 1888 1888 78 - 138 Ethyl Acetate ND 258.8 883 1888 88.3 78 - 138 Ethyl Acetate ND 258.8 878 1888 88.3 78 - 138 Ethylene Glycol ND 258.8 878 1888 88.3 78 - 138 Ethylene Oxide ND 58.8 872 1888 87.2 78 - 138 Ethylene Oxide ND 58.8 885 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 885 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 872 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 872 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 872 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 872 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 872 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 872 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 895 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 895 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 895 1888 89.5 78 - 138 Ethylene Oxide ND 58.8 985 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 985 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 985 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 985 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 78 - 138 Ethylene Oxide ND 58.8 99.5 1888 99.5 1888 99.5 7	Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Acetone	1,4-Dioxane	ND	50.0	906	1000	90.6	70 - 130	
Acetone ND 258.8 919 1088 91.9 78 - 138 Acetonitrile ND 50.8 937 1088 93.7 78 - 138 Benzene ND 2.0 16.9 20.8 84.5 76 - 130 Butanes ND 250.8 1748 2088 86.9 76 - 138 Cumene ND 50.8 894 1088 89.4 76 - 138 Cyclohexane ND 50.8 883 1088 92.6 76 - 138 Ethyl Acetate ND 250.8 878 1088 92.6 76 - 138 Ethyl Ether ND 250.8 878 1088 83.3 76 - 138 Ethylene Glycol ND 50.8 833 1088 83.3 76 - 138 Ethylene Oxide ND 50.8 872 1088 83.3 76 - 138 Ethylene Oxide ND 50.8 872 1088 83.3 76 - 138 Ethylene Oxide ND 50.8 872 1088 83.3 76 - 138 Ethylene Oxide ND 50.8 872 1088 83.3 76 - 138 Ethylene Oxide ND 50.8 872 1088 83.3 76 - 138 Etopropanol (2-Propanol) ND 50.8 4428 5080 88.3 76 - 138 Isopropol (2-Propanol) ND 50.8 943 1088 93.9 1088 93.8 76 - 138 Esporopyl Acetate ND 250.8 993 1088 93.8 76 - 138 Etopropanol (2-Propanol) ND 50.8 993 1088 93.9 76 - 138 Etopropanol (2-Propanol) ND 50.8 993 1088 93.9 76 - 138 Etopropanol (2-Propanol) ND 50.8 993 1088 93.9 76 - 138 Etopropanol (2-Propanol) ND 50.8 993 1088 93.9 76 - 138 Etopropanol (2-Propanol) ND 50.8 993 1088 93.9 76 - 138 Etopropanol (2-Propanol) ND 50.8 993 1088 93.9 76 - 138 Etopropanol (2-Propanol) ND 50.8 993 1088 93.9 76 - 138 Etopropanol (2-Propanol) ND 50.8 995 1088 93.9 76 - 138 Etopropanol (2-Propanol) ND 50.8 995 1088 93.9 78 - 138 Etopropanol (2-Propanol) ND 50.8 995 1088 93.9 93.9 93.9 93.9 93.9 93.9 93.9 93	2-Butanol	ND	250.0	927	1000	92.7	70 - 130	
Acetonitrile ND 58.8 937 1888 93.7 78 - 138 Benzene ND 2.8 16.9 28.8 84.5 76 - 138 Butanes ND 258.8 1748 2886 86.9 76 - 138 Butanes ND 58.8 894 1888 86.9 76 - 138 Cumene ND 58.8 883 1888 88.3 76 - 138 Cyclohexane ND 58.8 883 1888 88.3 76 - 138 Ethyl Acetate ND 258.8 878 1888 87.8 76 - 138 Ethyl Acetate ND 258.8 878 1888 87.8 76 - 138 Ethylene Glycol ND 258.8 878 1888 87.8 76 - 138 Ethylene Oxide ND 58.8 872 1888 87.2 76 - 138 Heptane ND 58.8 872 1888 87.2 76 - 138 Heptane ND 58.8 895 1888 87.2 76 - 138 Hexanes ND 59.8 872 1888 87.2 76 - 138 Isopropanol (2-Propanol) ND 59.8 944 87.8 78 - 138 Isopropanol (2-Propanol) ND 59.8 943 1888 94.3 78 - 138 Isopropyl Acetate ND 258.8 989 1888 95 78 - 138 Methanol ND 258.8 969 1888 96.9 78 - 138 Methanol ND 258.8 969 1888 97.4 78 - 138 Pentanes ND 59.8 985 1888 97.4 78 - 138 Pentanes ND 59.8 985 1888 97.4 78 - 138 Pentanes ND 59.8 985 1888 97.4 78 - 138 Pentanes ND 59.8 985 1888 97.4 78 - 138 Pentanes ND 59.8 985 1888 97.4 78 - 138 Pentanes ND 59.8 985 1888 97.4 78 - 138 Pentanes ND 59.8 985 1888 97.4 78 - 138 Pentanes ND 59.8 985 1888 97.4 78 - 138 Propane ND 59.8 97.9 980 1888 97.4 78 - 138 Propane ND 59.8 97.9 980 1888 97.4 78 - 138 Propane ND 59.8 97.9 97.9 1888 97.9 97.9 1888 97.9 78 - 138 Tetrahydrofuran ND 59.8 97.9 980 1888 97.9 97.9 78 - 138	2-Ethoxyethanol	ND	50.0	861	1000	86.1	70 - 130	
Benzene ND 2.8 16.9 28.0 84.5 78 - 138 Butanes ND 250.0 1740 2600 86.9 78 - 130 Cumene ND 58.8 894 1600 89.4 78 - 130 Cyclohexane ND 58.8 883 1600 88.3 78 - 130 Ethyl Acetate ND 250.0 878 1600 87.8 70 - 130 Ethyl Ether ND 250.0 878 1600 87.8 70 - 130 Ethylene Glycol ND 59.0 872 1600 87.2 70 - 130 Ethylene Oxide ND 59.0 872 1600 87.2 70 - 130 Heyane ND 59.0 895 1600 89.5 70 - 130 Heyanes ND 59.0 4420 5900 88.3 70 - 130 Isopropal (2-Propanol) ND 59.0 93 1600 93.0 70 - 130 Methanol ND </th <th>Acetone</th> <th>ND</th> <th>250.0</th> <th>919</th> <th>1000</th> <th>91.9</th> <th>70 - 130</th> <th></th>	Acetone	ND	250.0	919	1000	91.9	70 - 130	
Butanes ND 250.0 1740 2000 86.9 70 - 130 Cumene ND 50.0 894 1000 89.4 70 - 130 Cumene ND 50.0 883 1000 88.3 70 - 130 Cyclohexane ND 250.0 926 1000 92.6 70 - 130 Ethyl Acetate ND 250.0 878 1000 87.8 70 - 130 Ethyl Ether ND 250.0 878 1000 87.8 70 - 130 Ethylene Glycol ND 250.0 878 1000 87.2 70 - 130 Ethylene Oxide ND 50.0 872 1000 87.2 70 - 130 Ethylene Oxide ND 50.0 895 1000 89.5 70 - 130 Ethylene Oxide ND 50.0 895 1000 89.5 70 - 130 Ethylene Oxide ND 50.0 895 1000 89.5 70 - 130 Ethylene Oxide ND 50.0 895 1000 89.5 70 - 130 Ethylene Oxide ND 50.0 943 1000 94.3 70 - 130 Expropanol (2-Propanol) ND 50.0 943 1000 94.3 70 - 130 Expropanol (2-Propanol) ND 50.0 943 1000 97.0 70 - 130 Expropanol Oxide ND 250.0 930 1000 97.0 70 - 130 Expropanol Oxide ND 250.0 969 1000 97.0 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 985 1000 97.5 70 - 130 Expropanol Oxide ND 50.0 980 980 98.5 70 - 130 Expropanol Oxide ND 50.0 980 980 980 98.0 98.0 98.0 98.0 98.0	Acetonitrile	ND	50.0	937	1000	93.7	70 - 130	
Cumene ND 58.8 894 1000 89.4 70 - 130 Cyclohexane ND 58.0 883 1000 88.3 70 - 130 Ethyl Acetate ND 250.0 926 1000 92.6 70 - 130 Ethyl Ether ND 250.0 878 1000 87.8 70 - 130 Ethylene Glycol ND 250.0 833 1000 83.3 70 - 130 Ethylene Oxide ND 50.0 872 1000 87.2 70 - 130 Heytane ND 250.0 895 1000 87.2 70 - 130 Hexanes ND 50.0 4420 5000 88.3 70 - 130 Isopropanol (2-Propanol) ND 50.0 930 1000 93.0 70 - 130 Methanol ND 250.0 930 1000 90.5 70 - 130 Pentanes ND 50.0 905 1000 90.5 70 - 130 Propane <t< th=""><th>Benzene</th><th>ND</th><th>2.0</th><th>16.9</th><th>20.0</th><th>84.5</th><th>70 - 130</th><th></th></t<>	Benzene	ND	2.0	16.9	20.0	84.5	70 - 130	
Cyclohexane ND 50.0 883 1000 88.3 70 - 130 Ethyl Acetate ND 250.0 926 1000 92.6 78 - 130 Ethyl Ether ND 250.0 878 1000 87.8 70 - 130 Ethylene Glycol ND 250.0 833 1000 83.3 70 - 130 Ethylene Oxide ND 50.0 872 1000 87.2 70 - 130 Heytane ND 250.0 895 1000 89.5 70 - 130 Hexanes ND 50.0 4420 5000 88.3 70 - 130 Isopropanol (2-Propanol) ND 50.0 943 1000 94.3 70 - 130 Isopropyl Acetate ND 250.0 930 1000 93.0 70 - 130 Methanol ND 50.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 817 1000 81.7 70 - 130 Propa	Butanes	ND	250.0	1740	2000	86.9	70 - 130	
Ethyl Acetate ND 250.0 926 1000 92.6 70 - 130 Ethyl Ether ND 250.0 878 1000 87.8 70 - 130 Ethylene Glycol ND 250.0 833 1000 83.3 70 - 130 Ethylene Oxide ND 50.0 872 1000 87.2 70 - 130 Ethylene Oxide ND 50.0 895 1000 89.5 70 - 130 Hexanes ND 50.0 4420 5000 88.3 70 - 130 Isopropanol (2-Propanol) ND 50.0 943 1000 94.3 70 - 130 Isopropyl Acetate ND 250.0 930 1000 93.0 70 - 130 Methanol ND 250.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 965 1000 90.5 70 - 130 Pentanes ND 250.0 900 87.4 70 - 130 Pentanes ND 250.0 900 87.4 70 - 130 Pentanes ND 250.0 900 900 90.0 90.0 70 - 130 Pentanes ND 250.0 900 900 900 90.0 70 - 130 Pentanes ND 250.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 90.0 90.0 70 - 130 Pentanes ND 50.0 900 900 900 90.0 90.0 90.0 90.0 90	Cumene	ND	50.0	894	1000	89.4	70 - 130	
Ethyl Ether ND 250.0 878 1000 87.8 70 - 130 Ethylene Glycol ND 250.0 833 1000 83.3 70 - 130 Ethylene Oxide ND 50.0 872 1000 87.2 70 - 130 Ethylene Oxide ND 250.0 895 1000 89.5 70 - 130 Hexanes ND 50.0 4420 5000 88.3 70 - 130 Isopropanol (2-Propanol) ND 50.0 943 1000 94.3 70 - 130 Isopropyl Acetate ND 250.0 930 1000 93.0 70 - 130 Methanol ND 250.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Propane ND 250.0 817 1000 87.4 70 - 130 Propane ND 250.0 817 1000 81.7 70 - 130 Propane ND 50.0 919 1000 91.9 70 - 130 Propane ND 50.0 919 1000 91.9 70 - 130 Propane ND 50.0 919 1000 91.9 70 - 130 Propane ND 50.0 919 1000 91.9 70 - 130 Propane ND 50.0 919 1000 91.9 70 - 130 Propane ND 50.0 919 1000 91.9 70 - 130 Propane ND 50.0 919 1000 91.9 70 - 130 Propane ND 50.0 919 1000 91.9 70 - 130 Propane ND 50.0 900 900 900 900 90.0 70 - 130 Propane ND 50.0 900 900 900 900 90.0 70 - 130 Propane ND 50.0 900 900 900 900 90.0 70 - 130 Propane ND 50.0 900 900 900 900 90.0 70 - 130 Propane ND 50.0 900 900 900 900 90.0 70 - 130 Propane ND 50.0 900 900 900 900 90.0 70 - 130 Propane ND 50.0 900 900 900 900 90.0 90.0 70 - 130 Propane ND 50.0 900 900 900 900 90.0 90.0 70 - 130 Propane ND 50.0 900 900 9000 900 90.0 90.0 70 - 130 Propane ND 50.0 900 900 900 900 90.0 90.0 70 - 130 Propane ND 50.0 900 900 900 900 90.0 90.0 90.0 70 - 130 Propane ND 50.0 900 900 900 900 900 90.0 90.0 90.0	Cyclohexane	ND	50.0	883	1000	88.3	70 - 130	
Ethylene Glycol ND 250.0 833 1000 83.3 70 - 130 Ethylene Oxide ND 50.0 872 1000 87.2 70 - 130 Heptane ND 250.0 895 1000 89.5 70 - 130 Hexanes ND 50.0 4420 5000 88.3 70 - 130 Isopropanol (2-Propanol) ND 50.0 943 1000 94.3 70 - 130 Isopropyl Acetate ND 250.0 930 1000 93.0 70 - 130 Methanol ND 250.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 817 1000 87.4 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 91.9 70 - 130	Ethyl Acetate	ND	250.0	926	1000	92.6	70 - 130	
Ethylene Oxide ND 50.0 872 1000 87.2 70 - 130 Heptane ND 250.0 895 1000 89.5 70 - 130 Hexanes ND 50.0 4420 5000 88.3 70 - 130 Isopropanol (2-Propanol) ND 50.0 943 1000 94.3 70 - 130 Isopropyl Acetate ND 250.0 930 1000 93.0 70 - 130 Methanol ND 250.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Propane ND 250.0 817 1000 87.4 70 - 130 Propane ND 250.0 817 1000 81.7 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene	Ethyl Ether	ND	250.0	878	1000	87.8	70 - 130	
Heptane ND 250.0 895 1000 89.5 70 - 130 Hexanes ND 50.0 4420 5000 88.3 70 - 130 Isopropanol (2-Propanol) ND 50.0 943 1000 94.3 70 - 130 Isopropyl Acetate ND 250.0 930 1000 93.0 70 - 130 Methanol ND 250.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 995 1000 90.5 70 - 130 Pentanes ND 250.0 817 1000 87.4 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 90.0 70 - 130	Ethylene Glycol	ND	250.0	833	1000	83.3	70 - 130	
Hexanes ND 50.0 4420 5000 88.3 70 - 130 Isopropanol (2-Propanol) ND 50.0 943 1000 94.3 70 - 130 Isopropyl Acetate ND 250.0 930 1000 93.0 70 - 130 Methanol ND 250.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 2620 3000 87.4 70 - 130 Propane ND 250.0 817 1000 81.7 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 90.0 70 - 130	Ethylene Oxide	ND	50.0	872	1000	87.2	70 - 130	
Isopropanol (2-Propanol) ND 50.0 943 1000 94.3 70 - 130 Isopropyl Acetate ND 250.0 930 1000 93.0 70 - 130 Methanol ND 250.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 2620 3000 87.4 70 - 130 Propane ND 250.0 817 1000 81.7 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 90.0 70 - 130	Heptane	ND	250.0	895	1000	89.5	70 - 130	
Isopropyl Acetate ND 250.0 930 1000 93.0 70 - 130 Methanol ND 250.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 2620 3000 87.4 70 - 130 Propane ND 250.0 817 1000 81.7 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 90.0 70 - 130	Hexanes	ND	50.0	4420	5000	88.3	70 - 130	
Methanol ND 250.0 969 1000 96.9 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 2620 3000 87.4 70 - 130 Propane ND 250.0 817 1000 81.7 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 90.0 70 - 130	Isopropanol (2-Propanol)	ND	50.0	943	1000	94.3	70 - 130	
Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 2620 3000 87.4 70 - 130 Propane ND 250.0 817 1000 81.7 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 90.0 70 - 130	Isopropyl Acetate	ND	250.0	930	1000	93.0	70 - 130	
Pentanes ND 250.0 2620 3000 87.4 70 - 130 Propane ND 250.0 817 1000 81.7 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 90.0 70 - 130	Methanol	ND	250.0	969	1000	96.9	70 - 130	
Propane ND 250.0 817 1000 81.7 70 - 130 Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 90.0 70 - 130	Dichloromethane	ND	50.0	905	1000	90.5	70 - 130	
Tetrahydrofuran ND 50.0 919 1000 91.9 70 - 130 Toluene ND 50.0 900 1000 90.0 70 - 130	Pentanes	ND	250.0	2620	3000	87.4	70 - 130	
Toluene ND 50.0 900 1000 90.0 70 - 130	Propane	ND	250.0	817	1000	81.7	70 - 130	
	Tetrahydrofuran	ND	50.0	919	1000	91.9	70 - 130	
Xylenes ND 50.0 3640 4000 91.0 70 - 130	Toluene	ND	50.0	900	1000	90.0	70 - 130	
	Xylenes	ND	50.0	3640	4000	91.0	70 - 130	



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 1/13/2020 Analysis Date: 1/16/2020 Report Date: 1/21/2020

Metrc Batch ID: 1A4010300016315000021137 Metrc Sample ID: 1A4010300016315000021157 Harvest/Process Date: 1/11/2020 Report ID:

LS-200121-12

Qualifier Flag Descriptions

J	Reported result is an estimate - the value is less than the minimum calibration level but greater than the estimated detection limit (EDL)
U	The analyte was not detected in the sample at the estimated detection limit (EDL)
E	Exceeds calibration range
D	Dilution data - result was obtained from the analysis of a dilution
В	Analyte found in sample and associated blank
С	Co-eluting compound
R	Relative Percent Difference (RPD) outside control limits
NR	Analyte not reported because of problems in sample preparation or analysis
ND	Non-Detect
X	Results from reinjection/repeat/re-column data
EMC	Estimated maximum possible concentration - indicates that a peak is detected but did not meet the method required criteria
М	Manual integration
PS	Peaks split
НВ	Control acceptance criteria are exceeded high and the associated sample is below the detection limit
LB	Control acceptance criteria are exceeded low and the associated sample exceeds the regulatory limit
ME	Marginal Exceedance
LR	Low Recovery Analyte
LOQ	Limit of Quantitation