

Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 12/4/2019 Analysis Date: 12/4/2019 Report Date: 12/6/2019

Metrc Batch ID: 1A4010300016315000019536 Metrc Sample ID: 1A4010300016315000019553 Harvest/Process Date: 12/3/2019 Report ID:

LS-191206-14

#### **Potency**

Potency Analysis Date: 12/5/2019 Potency Batch ID: CAN\_120519A Potency Method: JAOAC 2015.1

**65.1%** 

Total THC

<LOQ

Total CBD

Samples: NSS-NZR-HWH, PWZ-XJJ-SJP



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: 9
<b>Д9ТНС</b>	Delta-9 Tetrahydrocannabinol	0.16	10.3	61.7	68.5	65.1	
THCA	Tetrahydrocannabinolic acid	0.16	0.00	ND	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
CBD	Cannabidiol	0.16	0.00	ND	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
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	51.0	ND	0.270	0.135	•
CBG	Cannabigerol*	0.16	14.7	2.09	2.42	2.25	•
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	13.5	3.04	3.47	3.25	-
CBCA	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
CBN	Cannabinol	0.16	4.11	0.480	0.500	0.490	•
Total THC	Δ9THC + (THCA × 0.877)		10.3	61.7	68.5	65.1	
Total CBD	CBD + (CBDA × 0.877)		0.00	ND	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
Total			10.1	67.3	75.1	71.2	

### **Compliance**

Pesticides	Within limits	Analysis Date: 12/5/2019	Pass 🔗
Solvents	Within limits	Analysis Date: 12/5/2019	Pass 📀
Potency	Within limits	Analysis Date: 12/5/2019	Pass 🕢

Bryce Kidd, Ph.D. Lab Director

Aaron Troyer //
Chief Science Officer



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Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 12/4/2019 Analysis Date: 12/4/2019 Report Date: 12/6/2019

Metrc Batch ID: 1A4010300016315000019536 Metrc Sample ID: 1A4010300016315000019553 Harvest/Process Date: 12/3/2019

Report ID:

Unit: %

LS-191206-14

Method: JAOAC 2015.1

Terpenes\*
Sample Data

Analyte	Avg.	Notes
β-Caryophyllene	6.83%	
Humulene	2.36%	
Selinadiene	2.01%	
β-Farnesene 2	0.939%	
Limonene	0.542%	
Linalool	0.387%	
α-Bisabolol	0.239%	
α-Terpineol	0.238%	
Fenchol	0.209%	
β-Myrcene	0.106%	
Terpinolene	0.0752%	
α-Pinene	0.0301%	
Azulene	ND	
Borneol	ND	
Camphene	ND	
Camphore	ND	
Caryophyllene Oxide	ND	
Cedrol	ND	
Cymene	ND	
Eucalyptol	ND	
Fenchone	ND	
Geraniol	ND	
Geranyl Acetate	ND	
Guaiol	ND	
Isoborneol	ND	
Isopulegol	ND	
Nerol	ND	
Pulegone	ND	
9		
Sabinene	ND	

Terpene Analysis Date: 12/4/2019 Terpene Batch ID: TRP\_120419A

y-Terpineol

Total

Analyte	Avg.	Notes
Sabinene Hydrate	ND	
Valencene	ND	
cis-Nerolidol	ND	
trans-Nerolidol	ND	
Δ3-Carene	ND	
α-Cedrene	ND	
α-Ocimene	ND	
$\alpha\text{-Phellandrene}$	ND	
α-Terpinene	ND	
β-Farnesene 1	ND	
β-Ocimene	ND	
β-Pinene	ND	
γ-Terpinene	ND	

ND

14.0%



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

Sample Type: Extracts Sample Date: 12/4/2019 Analysis Date: 12/4/2019 Report Date: 12/6/2019

1A4010300016315000019536 Metrc Sample ID: 1A4010300016315000019553 Harvest/Process Date: 12/3/2019

Report ID:

LS-191206-14

**Pesticides** Sample Data

Pesticides Analysis Date: 12/5/2019 Pesticides Batch ID: PST 120519B

Method: EN 15662 Unit: µg/g (ppm)

Pass 🕢

Analyte	NSS-NZR-HWH	PWZ-XJJ-SJP	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	NSS-NZR-HWH	PWZ-XJJ-SJP	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
Oxamyl	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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Metrc Batch ID: 1A4010300016315000019536 Metrc Sample ID: 1A4010300016315000019553 Harvest/Process Date: 12/3/2019

Report ID:

LS-191206-14



## Pesticides Quality Control Data

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	0.751	1.00	75.1	50 - 150	
Acephate	ND	0.1	0.664	1.00	66.4	50 - 150	
Acequinocyl	ND	1.5	0.824	1.00	82.4	50 - 150	
Acetamiprid	ND	0.1	0.921	1.00	92.1	50 - 150	
Aldicarb	ND	0.1	0.909	1.00	90.9	50 - 150	
Azoxystrobin	ND	0.1	0.877	1.00	87.7	50 - 150	
Bifenazate	ND	0.1	ND	1.00	0.00	50 - 150	ND
Bifenthrin	ND	0.1	0.896	1.00	89.6	50 - 150	
Boscalid	ND	0.1	0.830	1.00	83.0	50 - 150	
Carbaryl	ND	0.1	0.928	1.00	92.8	50 - 150	
Carbofuran	ND	0.1	0.930	1.00	93.0	50 - 150	
Chlorantraniliprole	ND	0.1	0.939	1.00	93.9	50 - 150	
Chlorfenapyr	ND	0.1	1.03	1.00	103	50 - 150	
Chlorpyrifos	ND	0.1	0.915	1.00	91.5	50 - 150	
Clofentezine	ND	0.1	0.708	1.00	70.8	50 - 150	
Cyfluthrin	ND	0.5	1.34	1.00	134	50 - 150	
Cypermethrin	ND	0.1	0.824	1.00	82.4	50 - 150	
Daminozide	ND	0.5	ND	1.00	0.218	10 - 150	LR
Diazinon	ND	0.1	0.924	1.00	92.4	50 - 150	
Dichlorvos (DDVP)	ND	0.5	1.10	1.00	110	50 - 150	
Dimethoate	ND	0.1	0.935	1.00	93.5	50 - 150	
Ethoprophos	ND	0.1	0.983	1.00	98.3	50 - 150	
Etofenprox	ND	0.1	0.676	1.00	67.6	50 - 150	
Etoxazole	ND	0.1	0.852	1.00	85.2	50 - 150	
Fenoxycarb	ND	0.1	0.948	1.00	94.8	50 - 150	
Fenpyroximate	ND	0.1	0.687	1.00	68.7	50 - 150	
Fipronil	ND	0.1	0.907	1.00	90.7	50 - 150	
Flonicamid	ND	0.1	0.917	1.00	91.7	50 - 150	
Fludioxonil	ND	0.1	0.923	1.00	92.3	50 - 150	
Hexythiazox	ND	0.1	0.510	1.00	51.0	50 - 150	
Imazalil	ND	0.1	0.782	1.00	78.2	50 - 150	
Imidacloprid	ND	0.1	0.859	1.00	85.9	50 - 150	
Kresoxim-methyl	ND	0.1	0.959	1.00	95.9	50 - 150	
Malathion	ND	0.1	1.01	1.00	101	50 - 150	

Pesticides QC Analysis Date: 12/5/2019 Pesticides QC Batch ID: PST 120519B Method: EN 15662 Unit: μg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Metalaxyl	ND	0.1	1.06	1.00	106	50 - 150	
Methiocarb	ND	0.1	0.969	1.00	96.9	50 - 150	
Methomyl	ND	0.1	0.927	1.00	92.7	50 - 150	
Methyl Parathion	ND	0.2	0.639	1.00	63.9	30 - 150	
MGK-264	ND	0.2	0.661	0.600	110	50 - 150	
Myclobutanil	ND	0.1	0.923	1.00	92.3	50 - 150	
Naled	ND	0.2	0.873	1.00	87.3	50 - 150	
0xamy1	ND	0.1	0.963	1.00	96.3	50 - 150	
Paclobutrazol	ND	0.1	0.888	1.00	88.8	50 - 150	
Permethrins	ND	0.1	0.899	1.00	89.9	50 - 150	
Phosmet	ND	0.1	0.973	1.00	97.3	50 - 150	
Piperonyl Butoxide	ND	0.1	0.843	1.00	84.3	50 - 150	
Prallethrin	ND	0.1	0.900	1.00	90.0	50 - 150	
Propiconazole	ND	0.1	1.50	1.00	150	50 - 150	
Propoxur	ND	0.1	0.949	1.00	94.9	50 - 150	
Pyrethrins	ND	0.5	0.886	1.00	88.6	50 - 150	
Pyridaben	ND	0.1	0.648	1.00	64.8	50 - 150	
Spinosad	ND	0.1	1.31	1.00	131	50 - 150	
Spiromesifen	ND	0.1	0.812	1.00	81.2	50 - 150	
Spirotetramat	ND	0.1	1.03	1.00	103	50 - 150	
Spiroxamine	ND	0.1	0.428	1.00	42.8	50 - 150	LR
Tebuconazole	ND	0.1	0.953	1.00	95.3	50 - 150	
Thiacloprid	ND	0.1	0.952	1.00	95.2	50 - 150	
Thiamethoxam	ND	0.1	0.916	1.00	91.6	50 - 150	
Trifloxystrobin	ND	0.1	0.891	1.00	89.1	50 - 150	



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 12/4/2019 Analysis Date: 12/4/2019 Report Date: 12/6/2019

Metrc Batch ID: 1A4010300016315000019536 Metrc Sample ID: 1A4010300016315000019553

Report ID:

LS-191206-14

Harvest/Process Date: 12/3/2019

Residual Solvents
Sample Data

Solvents Analysis Date: 12/5/2019 Solvents Batch ID: RES 120519A Method: EPA 5021A Unit: μg/g (ppm) Pass 🕢

Analyte	NSS-NZR-HWH	PWZ-XJJ-SJP	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



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 12/4/2019 Analysis Date: 12/4/2019 Report Date: 12/6/2019

Metrc Batch ID: 1A4010300016315000019536 Metrc Sample ID: 1A4010300016315000019553 Harvest/Process Date: 12/3/2019

Report ID:

LS-191206-14

Residual Solvents
Quality Control Data

Solvents QC Analysis Date: 12/5/2019 Solvents QC Batch ID: RES 120519A Method: EPA 5021A Unit: μg/g (ppm)

2-Butanol ND 258.8 957 1888 95. 78 - 1388 2-Ethoxyethanol ND 58.8 955 1888 95. 78 - 138 Acetone ND 258.8 955 1888 96.5 1888 96.5 78 - 138 Acetone ND 258.8 96.5 1888 96.5 78 - 138 Benzene ND 2.0 18.6 28.8 96.5 1888 96.5 78 - 138 Butanes ND 258.8 1758 2888 97.0 188.6 28.8 92.9 78 - 138 Butanes ND 258.8 188.6 28.8 92.9 78 - 138 Butanes ND 258.8 1888 1888 1888 97.0 1888 97.0 1888 1888 1888 1888 1888 1888 1888 18	Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
2-Ethoxyethanol ND 50.0 895 1000 895 70 - 130 Acetone ND 258.0 933 1000 93.3 70 - 130 Acetonitrile ND 50.0 50.0 965 1000 96.5 70 - 130 Benzene ND 2.8 18.6 20.0 92.9 70 - 130 Butanes ND 50.0 1010 1000 101 1000 101 70 - 130 Cumene ND 50.0 1010 1000 101 100 101 70 - 130 Cyclohexane ND 50.0 50.0 1010 1000 1011 70 - 130 Ethyl Acetate ND 258.0 940 1000 94.0 70 - 130 Ethyl Acetate ND 258.0 894 1000 89.4 70 - 130 Ethylene Glycol ND 258.0 894 1000 89.0 97.0 130 Ethylene Oxide ND 50.0 913 1000 97.3 70 - 130 Ethylene Oxide ND 50.0 913 1000 97.3 70 - 130 Ethylene Oxide ND 50.0 913 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.3 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.3 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.3 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 991 1000 97.1 70 - 130 Ethylene Oxide ND 50.0 97.1 70 - 130 Ethylene ND 50.0 97.1 70 - 1	1,4-Dioxane	ND	50.0	987	1000	98.7	70 - 130	
Acetone	2-Butanol	ND	250.0	957	1000	95.7	70 - 130	
Actonitrile         ND         58.8         965         1888         96.5         78 - 138           Benzene         ND         2.8         18.6         20.8         92.9         78 - 138           Butanes         ND         259.0         1758         2080         87.4         79 - 138           Cumene         ND         59.0         1810         1080         191         79 - 138           Cyclohexane         ND         59.0         930         1080         93.0         70 - 130           Ethyl Acetate         ND         259.0         940         1080         94.0         70 - 130           Ethyl Ether         ND         259.0         894         1080         89.4         70 - 130           Ethylene Glycol         ND         259.0         890         1800         89.0         70 - 130           Ethylene Oxide         ND         59.0         913         1080         91.3         70 - 130           Hexanes         ND         59.0         941         1080         94.1         70 - 130           Isopropyl Acetate         ND         59.0         953         1080         99.0         70 - 130           Methanol         ND<	2-Ethoxyethanol	ND	50.0	895	1000	89.5	70 - 130	
Benzene         ND         2.8         18.6         28.0         92.9         78 - 138           Butanes         ND         259.8         1758         2000         87.4         78 - 130           Cumene         ND         58.8         1010         1000         101         78 - 130           Cyclohexane         ND         58.8         938         1000         93.0         78 - 130           Ethyl Acetate         ND         259.8         894         1000         94.0         78 - 130           Ethyl Ether         ND         259.8         894         1000         89.4         78 - 130           Ethylene Glycol         ND         259.8         899         1000         89.0         78 - 130           Ethylene Oxide         ND         59.8         913         1000         91.3         76 - 130           Heytane         ND         59.8         944         1000         91.3         76 - 130           Heytane         ND         59.0         941         1000         91.3         76 - 130           Heytane         ND         59.0         953         1000         95.3         76 - 130           Sporpopal (2-Propanel)         ND<	Acetone	ND	250.0	933	1000	93.3	70 - 130	
Butanes         ND         250.0         1750         2000         87.4         70 - 130           Cumene         ND         50.0         1010         1000         101         70 - 130           Cyclohexane         ND         50.0         930         1000         93.0         70 - 130           Ethyl Acetate         ND         250.0         940         1000         94.0         70 - 130           Ethyl Ether         ND         250.0         894         1000         89.4         70 - 130           Ethylene Glycol         ND         250.0         890         1000         89.0         70 - 130           Ethylene Oxide         ND         50.0         913         1000         91.3         70 - 130           Heytane         ND         50.0         944         1000         91.3         70 - 130           Hexanes         ND         50.0         941         1000         94.1         70 - 130           Isopropanol (2-Propanol)         ND         50.0         953         1000         95.3         70 - 130           Methanol         ND         250.0         934         1000         90.0         70 - 130           Pentanes <t< th=""><th>Acetonitrile</th><th>ND</th><th>50.0</th><th>965</th><th>1000</th><th>96.5</th><th>70 - 130</th><th></th></t<>	Acetonitrile	ND	50.0	965	1000	96.5	70 - 130	
Cumene         ND         59.0         1010         1000         93.0         70 - 130           Cyclohexane         ND         59.0         930         1000         93.0         70 - 130           Ethyl Acetate         ND         259.0         940         1000         94.0         70 - 130           Ethyl Ether         ND         259.0         894         1000         89.4         70 - 130           Ethylene Glycol         ND         259.0         890         1000         89.0         70 - 130           Ethylene Oxide         ND         59.0         913         1000         91.3         70 - 130           Heytane         ND         259.0         944         1000         94.4         70 - 130           Hexanes         ND         59.0         4610         5900         92.1         70 - 130           Sopropanol (2-Propanol)         ND         59.0         953         1000         95.3         70 - 130           Methanol         ND         259.0         990         1000         99.0         70 - 130           Pentanes         ND         59.0         269.0         3000         89.6         70 - 130           Propane	Benzene	ND	2.0	18.6	20.0	92.9	70 - 130	
Cyclohexane         ND         50.0         930         1000         93.0         70 - 130           Ethyl Acetate         ND         259.0         940         1000         94.0         70 - 130           Ethyl Ether         ND         259.0         894         1000         89.4         70 - 130           Ethylene Glycol         ND         259.0         890         1000         89.0         70 - 130           Ethylene Oxide         ND         50.0         913         1000         91.3         70 - 130           Heytane         ND         250.0         944         1000         94.4         70 - 130           Hexanes         ND         50.0         4610         5000         92.1         70 - 130           Isopropanol (2-Propanol)         ND         50.0         941         1000         94.1         70 - 130           Isopropyl Acetate         ND         250.0         953         1000         95.3         70 - 130           Methanol         ND         50.0         934         1000         93.4         70 - 130           Pentanes         ND         50.0         798         1000         99.6         70 - 130           Propane	Butanes	ND	250.0	1750	2000	87.4	70 - 130	
Ethyl Acetate ND 250.0 940 1000 94.0 70 - 130 Ethyl Ether ND 250.0 894 1000 89.4 70 - 130 Ethylene Glycol ND 250.0 890 1000 89.0 70 - 130 Ethylene Oxide ND 50.0 913 1000 91.3 70 - 130 Heptane ND 250.0 944 1000 91.3 70 - 130 Heptane ND 50.0 944 1000 94.4 70 - 130 Hexanes ND 50.0 941 1000 92.1 70 - 130 Isopropanol (2-Propanol) ND 50.0 941 1000 92.1 70 - 130 Isopropyl Acetate ND 250.0 953 1000 95.3 70 - 130 Methanol ND 250.0 953 1000 95.3 70 - 130 Methanol ND 250.0 953 1000 95.3 70 - 130 Methanol ND 250.0 900 900 1000 99.0 70 - 130 Propane ND 250.0 934 1000 93.4 70 - 130 Propane ND 250.0 934 1000 93.4 70 - 130 Propane ND 250.0 950 900 900 900 90.0 70 - 130 Propane ND 250.0 950 950 950 950 950 95.0 70 - 130 Propane ND 250.0 950 950 950 950 950 95.0 70 - 130 Propane ND 250.0 950 950 950 950 95.0 95.0 70 - 130 Propane ND 50.0 950 950 950 950 95.0 95.0 70 - 130 Propane ND 50.0 950 950 950 95.0 95.0 95.0 70 - 130 Propane ND 50.0 950 950 950 950 95.0 95.0 70 - 130 Propane ND 50.0 950 950 950 950 95.0 95.0 95.0 70 - 130 Propane ND 50.0 950 950 950 950 95.0 95.0 95.0 95.	Cumene	ND	50.0	1010	1000	101	70 - 130	
Ethyl Ether ND 250.0 894 1000 89.4 70 - 130 Ethylene Glycol ND 250.0 890 1000 89.0 70 - 130 Ethylene Oxide ND 50.0 913 1000 91.3 70 - 130 Heptane ND 250.0 944 1000 94.4 70 - 130 Hexanes ND 50.0 941 1000 92.1 70 - 130 Isopropanol (2-Propanol) ND 50.0 941 1000 94.1 70 - 130 Isopropanol (2-Propanol) ND 50.0 941 1000 95.3 70 - 130 Methanol ND 250.0 953 1000 95.3 70 - 130 Methanol ND 250.0 900 900 1000 90.0 70 - 130 Isopropanol ND 50.0 934 1000 93.4 70 - 130 Pentanes ND 250.0 934 1000 93.4 70 - 130 Pentanes ND 250.0 934 1000 93.4 70 - 130 Pentanes ND 250.0 934 1000 93.4 70 - 130 Pentanes ND 250.0 930 930 930 930 93.4 70 - 130 Pentanes ND 250.0 950 930 950 950 950 95.9 70 - 130 Pentanes ND 50.0 950 950 950 950 950 95.9 70 - 130 Pentanes ND 50.0 950 950 950 950 95.9 70 - 130 Pentanes ND 50.0 950 950 950 950 95.0 95.0 70 - 130 Pentanes ND 50.0 950 950 950 950 95.0 95.0 70 - 130 Pentanes ND 50.0 950 950 950 950 95.0 95.0 70 - 130 Pentanes ND 50.0 950 950 950 950 95.0 95.0 95.0 95.	Cyclohexane	ND	50.0	930	1000	93.0	70 - 130	
Ethylene Glycol ND 250.0 890 1000 91.3 70 - 130  Ethylene Oxide ND 50.0 913 1000 91.3 70 - 130  Heptane ND 250.0 944 1000 94.4 70 - 130  Hexanes ND 50.0 4610 5000 92.1 70 - 130  Isopropanol (2-Propanol) ND 50.0 941 1000 94.1 70 - 130  Isopropyl Acetate ND 250.0 953 1000 95.3 70 - 130  Methanol ND 250.0 900 1000 95.3 70 - 130  Dichloromethane ND 50.0 934 1000 95.3 70 - 130  Pentanes ND 250.0 900 1000 90.0 70 - 130  Propane ND 250.0 798 1000 90.6 70 - 130  Tetrahydrofuran ND 50.0 959 1000 95.0 79.8 70 - 130  Tetrahydrofuran ND 50.0 950 950 1000 95.0 79.8 70 - 130	Ethyl Acetate	ND	250.0	940	1000	94.0	70 - 130	
Ethylene Oxide  ND  SO  SO  P13  1000  P1.3  Tolene  P1.3	Ethyl Ether	ND	250.0	894	1000	89.4	70 - 130	
Heptane ND 250.0 944 1000 94.4 76 - 130 Hexanes ND 50.0 4610 5000 92.1 70 - 130 Isopropanol (2-Propanol) ND 50.0 941 1000 94.1 70 - 130 Isopropyl Acetate ND 250.0 953 1000 95.3 70 - 130 Methanol ND 250.0 900 1000 90.0 70 - 130 Dichloromethane ND 50.0 934 1000 90.0 70 - 130 Pentanes ND 250.0 2690 3000 89.6 70 - 130 Propane ND 250.0 70 - 130 Propane ND 250.0 70 - 130 Tetrahydrofuran ND 50.0 950 950 1000 95.9 70 - 130 Tetrahydrofuran ND 50.0 950 950 950 950 950 950 95.0 70 - 130 Tetrahydrofuran ND 50.0 950 950 950 950 95.0 95.0 95.0 95.	Ethylene Glycol	ND	250.0	890	1000	89.0	70 - 130	
Hexanes ND 50.0 4610 5000 92.1 70 - 130 Isopropanol (2-Propanol) ND 50.0 941 1000 94.1 70 - 130 Isopropyl Acetate ND 250.0 953 1000 95.3 70 - 130 Methanol ND 250.0 900 1000 90.0 70 - 130 Dichloromethane ND 50.0 934 1000 93.4 70 - 130 Pentanes ND 250.0 2690 3000 89.6 70 - 130 Propane ND 250.0 798 1000 79.8 70 - 130 Tetrahydrofuran ND 50.0 950 1000 95.0 79.8 70 - 130 Toluene ND 50.0 956 1000 95.6 70 - 130	Ethylene Oxide	ND	50.0	913	1000	91.3	70 - 130	
Isopropanol (2-Propanol)       ND       50.0       941       1000       94.1       70 - 130         Isopropyl Acetate       ND       250.0       953       1000       95.3       70 - 130         Methanol       ND       250.0       900       1000       90.0       70 - 130         Dichloromethane       ND       50.0       934       1000       93.4       70 - 130         Pentanes       ND       250.0       2690       3000       89.6       70 - 130         Propane       ND       250.0       798       1000       79.8       70 - 130         Tetrahydrofuran       ND       50.0       959       1000       95.9       70 - 130         Toluene       ND       50.0       956       1000       95.6       70 - 130	Heptane	ND	250.0	944	1000	94.4	70 - 130	
Isopropyl Acetate       ND       250.0       953       1000       95.3       70 - 130         Methanol       ND       250.0       900       1000       90.0       70 - 130         Dichloromethane       ND       50.0       934       1000       93.4       70 - 130         Pentanes       ND       250.0       2690       3000       89.6       70 - 130         Propane       ND       250.0       798       1000       79.8       70 - 130         Tetrahydrofuran       ND       50.0       959       1000       95.9       70 - 130         Toluene       ND       50.0       956       1000       95.6       70 - 130	Hexanes	ND	50.0	4610	5000	92.1	70 - 130	
Methanol ND 250.0 900 1000 90.0 70 - 130 Dichloromethane ND 50.0 934 1000 93.4 70 - 130 Pentanes ND 250.0 2690 3000 89.6 70 - 130 Propane ND 250.0 798 1000 79.8 70 - 130 Tetrahydrofuran ND 50.0 959 1000 95.9 70 - 130 Toluene ND 50.0 956 1000 95.6 70 - 130	Isopropanol (2-Propanol)	ND	50.0	941	1000	94.1	70 - 130	
Dichloromethane       ND       50.0       934       1000       93.4       70 - 130         Pentanes       ND       250.0       2690       3000       89.6       70 - 130         Propane       ND       250.0       798       1000       79.8       70 - 130         Tetrahydrofuran       ND       50.0       959       1000       95.9       70 - 130         Toluene       ND       50.0       956       1000       95.6       70 - 130	Isopropyl Acetate	ND	250.0	953	1000	95.3	70 - 130	
Pentanes       ND       250.0       2690       3000       89.6       70 - 130         Propane       ND       250.0       798       1000       79.8       70 - 130         Tetrahydrofuran       ND       50.0       959       1000       95.9       70 - 130         Toluene       ND       50.0       956       1000       95.6       70 - 130	Methanol	ND	250.0	900	1000	90.0	70 - 130	
Propane         ND         250.0         798         1000         79.8         70 - 130           Tetrahydrofuran         ND         50.0         959         1000         95.9         70 - 130           Toluene         ND         50.0         956         1000         95.6         70 - 130	Dichloromethane	ND	50.0	934	1000	93.4	70 - 130	
Tetrahydrofuran ND 50.0 959 1000 95.9 70 - 130 Toluene ND 50.0 956 1000 95.6 70 - 130	Pentanes	ND	250.0	2690	3000	89.6	70 - 130	
Toluene ND 50.0 956 1000 95.6 70 - 130	Propane	ND	250.0	798	1000	79.8	70 - 130	
	Tetrahydrofuran	ND	50.0	959	1000	95.9	70 - 130	
	Toluene	ND	50.0	956	1000	95.6	70 - 130	
XyLenes ND 50.0 4010 4000 100 70 - 130	Xylenes	ND	50.0	4010	4000	100	70 - 130	



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 12/4/2019 Analysis Date: 12/4/2019 Report Date: 12/6/2019

Metrc Batch ID: 1A4010300016315000019536 Metrc Sample ID: 1A4010300016315000019553 Harvest/Process Date: 12/3/2019 Report ID:

LS-191206-14

### **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