

Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 12/9/2019 Analysis Date: 12/11/2019 Report Date: 12/16/2019

Metrc Batch ID: 1A4010300016315000018978 Metrc Sample ID: 1A4010300016315000019795 Harvest/Process Date: 12/6/2019 Report ID:

LS-191216-14

#### **Potency**

Potency Analysis Date: 12/11/2019 Potency Batch ID: CAN\_121119C Potency Method: JAOAC 2015.1

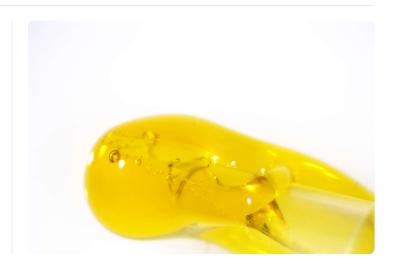
73.6%

Total THC

0.278%

Total CBD

Samples: JJF-TGR-PBB, PDW-RFX-MMJ



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: %
Δ9ΤΗC	Delta-9 Tetrahydrocannabinol	0.16	7.22	69.8	75.0	72.4	
THCA	Tetrahydrocannabinolic acid	0.16	15.9	1.23	1.44	1.34	•
CBD	Cannabidiol	0.16	75.6	0.173	0.383	0.278	•
CBDA	Cannabidiolic acid	0.16	0.00	<l0q< td=""><td><l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<></td></l0q<>	<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	71.5	ND	0.338	0.169	•
CBG	Cannabigerol*	0.16	0.149	2.28	2.29	2.28	•
CBGA	Cannabigerolic acid*	0.16	4.27	0.879	0.918	0.898	•
CBC	Cannabichromene*	0.16	0.0603	3.31	3.32	3.32	-
CBCA	Cannabichromenic acid*	0.16	2.39	1.26	1.29	1.28	•
CBN	Cannabinol	0.16	10.9	0.781	0.872	0.826	•
Total THC	Δ9THC + (THCA × 0.877)		7.35	70.9	76.3	73.6	
Total CBD	CBD + (CBDA × 0.877)		75.6	0.173	0.383	0.278	•
Total			6.70	79.7	85.9	82.8	

### **Compliance**

Pesticides	Within limits	Analysis Date: 12/12/2019	Pass 🕢
Solvents	Within limits	Analysis Date: 12/12/2019	Pass 🔗
Potency	Within limits	Analysis Date: 12/11/2019	Pass 🕢

Bryce Kidd, Ph.D. Lab Director Aaron Troyer
Chief Science Officer





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

Sample Type: Extracts Sample Date: 12/9/2019 Analysis Date: 12/11/2019 Report Date: 12/16/2019

1A4010300016315000018978 Metrc Sample ID: 1A4010300016315000019795 Harvest/Process Date: 12/6/2019

Report ID:

Unit: %

LS-191216-14

Method: JAOAC 2015.1

**Terpenes\*** Sample Data

Analyte	Avg.	Notes
β-Caryophyllene	1.12%	
Limonene	0.454%	
Humulene	0.327%	
Selinadiene	0.297%	
β-Farnesene 2	0.221%	
Linalool	0.137%	
α-Bisabolol	0.130%	
β-Myrcene	0.105%	
Fenchol	0.0983%	
Terpinolene	0.0922%	
Sabinene	0.0481%	
β-Pinene	0.0468%	
β-Ocimene	0.0386%	
α-Pinene	0.0307%	
Fenchone	0.0146%	
Azulene	ND	
Borneol	ND	
Camphene	ND	
Camphore	ND	
Caryophyllene Oxide	ND	
Cedrol	ND	
Cymene	ND	
Eucalyptol	ND	
Geraniol	ND	
Geranyl Acetate	ND	
Guaiol	ND ND	
Isoborneol	ND ND	
Isopulegol	ND	
Nerol	ND	

Terpene Analysis Date: 12/11/2019 Terpene Batch ID: TRP 121119A

Total

Amelia	A	None
Analyte	Avg.	Notes
Pulegone	ND	
Sabinene Hydrate	ND	
Valencene	ND	
cis-Nerolidol	ND	
trans-Nerolidol	ND	
Δ3-Carene	ND	
α-Cedrene	ND	
α-Ocimene	ND	
α-Phellandrene	ND	
α-Terpinene	ND	
α-Terpineol	ND	
β-Farnesene 1	ND	
γ-Terpinene	ND	
γ-Terpineol	ND	

3.16%



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LS-191216-14

Pesticides
Sample Data

Pesticides Analysis Date: 12/12/2019 Pesticides Batch ID: PST 121219A Method: EN 15662 Unit: μg/g (ppm) Pass 🤡

Analyte	JJF-TGR-PBB	PDW-RFX-MMJ	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

Metalaxyl ND Methiocarb ND	ND ND ND	0.2 0.2 0.4	0.1 0.1	Pass
Methiocarb ND	ND		0.1	
		0.4		Pass
Methomyl ND	ND		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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Sample Type: Extracts Sample Date: 12/9/2019 Analysis Date: 12/11/2019 Report Date: 12/16/2019

1A4010300016315000018978 Metrc Sample ID: 1A4010300016315000019795 Harvest/Process Date: 12/6/2019

Report ID:

LS-191216-14



#### **Pesticides Quality Control Data**

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	0.769	1.00	76.9	50 - 150	
Acephate	ND	0.1	0.485	1.00	48.5	50 - 150	ME
Acequinocyl	ND	1.5	0.577	1.00	57.7	50 - 150	
Acetamiprid	ND	0.1	0.861	1.00	86.1	50 - 150	
Aldicarb	ND	0.1	0.679	1.00	67.9	50 - 150	
Azoxystrobin	ND	0.1	0.706	1.00	70.6	50 - 150	
Bifenazate	ND	0.1	ND	1.00	1.33	50 - 150	LR
Bifenthrin	ND	0.1	0.621	1.00	62.1	50 - 150	
Boscalid	ND	0.1	0.705	1.00	70.5	50 - 150	
Carbaryl	ND	0.1	0.790	1.00	79.0	50 - 150	
Carbofuran	ND	0.1	0.884	1.00	88.4	50 - 150	
Chlorantraniliprole	ND	0.1	0.669	1.00	66.9	50 - 150	
Chlorfenapyr	ND	0.1	0.852	1.00	85.2	50 - 150	
Chlorpyrifos	ND	0.1	0.750	1.00	75.0	50 - 150	
Clofentezine	ND	0.1	0.594	1.00	59.4	50 - 150	
Cyfluthrin	ND	0.5	0.926	1.00	92.6	50 - 150	
Cypermethrin	ND	0.1	0.653	1.00	65.3	50 - 150	
Daminozide	ND	0.5	ND	1.00	3.62	10 - 150	LR
Diazinon	ND	0.1	0.774	1.00	77.4	50 - 150	
Dichlorvos (DDVP)	ND	0.5	1.11	1.00	111	50 - 150	
Dimethoate	ND	0.1	0.784	1.00	78.4	50 - 150	
Ethoprophos	ND	0.1	0.840	1.00	84.0	50 - 150	
Etofenprox	ND	0.1	0.626	1.00	62.6	50 - 150	
Etoxazole	ND	0.1	0.715	1.00	71.5	50 - 150	
Fenoxycarb	ND	0.1	0.663	1.00	66.3	50 - 150	
Fenpyroximate	ND	0.1	0.609	1.00	60.9	50 - 150	
Fipronil	ND	0.1	0.740	1.00	74.0	50 - 150	
Flonicamid	ND	0.1	0.823	1.00	82.3	50 - 150	
Fludioxonil	ND	0.1	0.728	1.00	72.8	50 - 150	
Hexythiazox	ND	0.1	0.475	1.00	47.5	50 - 150	ME
Imazalil	ND	0.1	0.737	1.00	73.7	50 - 150	
Imidacloprid	ND	0.1	0.551	1.00	55.1	50 - 150	
Kresoxim-methyl	ND	0.1	0.904	1.00	90.4	50 - 150	
Malathion	ND	0.1	0.953	1.00	95.3	50 - 150	

Pesticides QC Analysis Date: 12/12/2019 Pesticides QC Batch ID: PST 121219A

Method: EN 15662 Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Metalaxyl	ND	0.1	0.684	1.00	68.4	50 - 150	
Methiocarb	ND	0.1	0.804	1.00	80.4	50 - 150	
Methomyl	ND	0.1	0.790	1.00	79.0	50 - 150	
Methyl Parathion	ND	0.2	0.435	1.00	43.5	30 - 150	
MGK-264	ND	0.2	ND	0.600	0.00	50 - 150	ND
Myclobutanil	ND	0.1	0.639	1.00	63.9	50 - 150	
Naled	ND	0.2	0.714	1.00	71.4	50 - 150	
0xamy1	ND	0.1	0.849	1.00	84.9	50 - 150	
Paclobutrazol	ND	0.1	0.564	1.00	56.4	50 - 150	
Permethrins	ND	0.1	0.682	1.00	68.2	50 - 150	
Phosmet	ND	0.1	0.867	1.00	86.7	50 - 150	
Piperonyl Butoxide	ND	0.1	0.695	1.00	69.5	50 - 150	
Prallethrin	ND	0.1	0.843	1.00	84.3	50 - 150	
Propiconazole	ND	0.1	0.831	1.00	83.1	50 - 150	
Propoxur	ND	0.1	0.762	1.00	76.2	50 - 150	
Pyrethrins	ND	0.5	0.654	1.00	65.4	50 - 150	
Pyridaben	ND	0.1	0.648	1.00	64.8	50 - 150	
Spinosad	ND	0.1	0.581	1.00	58.1	50 - 150	
Spiromesifen	ND	0.1	0.760	1.00	76.0	50 - 150	
Spirotetramat	ND	0.1	0.703	1.00	70.3	50 - 150	
Spiroxamine	ND	0.1	ND	1.00	0.00	50 - 150	ND
Tebuconazole	ND	0.1	0.804	1.00	80.4	50 - 150	
Thiacloprid	ND	0.1	0.723	1.00	72.3	50 - 150	
Thiamethoxam	ND	0.1	0.869	1.00	86.9	50 - 150	
Trifloxystrobin	ND	0.1	0.762	1.00	76.2	50 - 150	



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Metrc Batch ID: 1A4010300016315000018978 Metrc Sample ID: 1A4010300016315000019795 Harvest/Process Date: 12/6/2019

Report ID:

LS-191216-14

Residual Solvents
Sample Data

Solvents Analysis Date: 12/12/2019 Solvents Batch ID: RES 121219A Method: EPA 5021A Unit: μg/g (ppm) Pass 🕢

Analyte	JJF-TGR-PBB	PDW-RFX-MMJ	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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Report ID:

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Residual Solvents
Quality Control Data

Solvents QC Analysis Date: 12/12/2019 Solvents QC Batch ID: RES 121219A Method: EPA 5021A Unit: μg/g (ppm)

1,4-Dioxane         NO         58.0         954         1000         95.4         78 - 130           2-Butanol         NO         258.0         946         1000         94.0         78 - 130           2-Ethoxyethanol         NO         59.0         879         1000         97.0         78 - 130           Acetone         NO         259.0         957         1000         97.2         78 - 130           Acetonitrile         NO         2.0         97.0         1000         97.2         78 - 130           Butanes         NO         2.0         17.4         20.0         87.2         78 - 130           Cumen         NO         58.0         922         1000         92.2         78 - 130           Cyclohexane         NO         58.0         922         1000         92.2         78 - 130           Ethyl Acetate         NO         259.0         98         1000         92.8         78 - 130           Ethylane Glycol         NO         259.0         85         1000         85.0         78 - 130           Ethylane Glycol         NO         259.0         895         1000         85.0         78 - 130           Ethylane Glycol         <	Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
2-Ethoxyethanol         ND         58.8         879         1080         87.9         78 - 138           Acetone         ND         258.8         915         1080         91.5         78 - 138           Acetonitrile         ND         59.8         967         1080         96.7         72 - 138           Benzene         ND         2.0         17.4         20.0         87.2         78 - 138           Butanes         ND         259.8         1650         2080         82.3         78 - 138           Cumene         ND         59.8         922         1080         92.2         78 - 138           Ethyl Acetate         ND         59.8         895         1080         92.8         79 - 138           Ethyl Lether         ND         259.8         872         1080         87.2         79 - 138           Ethylene Glycol         ND         59.8         85         1080         87.2         79 - 138           Ethylene Oxide         ND         59.8         85         1080         89.5         79 - 138           Hexanes         ND         59.8         85         1080         89.5         79 - 138           Evopropal (2-Propanl) <t< th=""><th>1,4-Dioxane</th><th>ND</th><th>50.0</th><th>954</th><th>1000</th><th>95.4</th><th>70 - 130</th><th></th></t<>	1,4-Dioxane	ND	50.0	954	1000	95.4	70 - 130	
Acetone	2-Butanol	ND	250.0	946	1000	94.6	70 - 130	
Acetonitrile         ND         58.8         967         1888         96.7         78 - 138           Benzene         ND         2.8         17.4         28.8         87.2         78 - 138           Butanes         ND         258.8         1658         2808         82.3         78 - 138           Cumene         ND         58.8         922         1080         92.2         78 - 138           Cyclohexane         ND         58.8         95         1080         92.8         78 - 138           Ethyl Acetate         ND         258.8         92.8         1080         92.8         79 - 139           Ethyl Ether         ND         259.8         872         1080         87.2         79 - 139           Ethyl Lene Glycol         ND         259.8         872         1080         87.2         79 - 139           Ethyl Lene Glycol         ND         59.8         85         1080         87.2         79 - 139           Ethyl Lene Glycol         ND         59.8         895         1080         89.5         79 - 139           Heyare         ND         59.8         895         1080         89.5         79 - 139           Heyares	2-Ethoxyethanol	ND	50.0	879	1000	87.9	70 - 130	
Benzene         ND         2.8         17.4         28.8         67.2         78 - 138           Butanes         ND         250.8         1650         2000         82.3         78 - 130           Cumene         ND         50.8         922         1600         92.2         78 - 130           Cyclohexane         ND         50.0         95.         1600         95.         78 - 130           Ethyl Acetate         ND         250.0         928         1800         92.8         78 - 130           Ethyl Lether         ND         250.0         872         1800         87.2         78 - 130           Ethylene Glycol         ND         250.0         872         1800         87.2         78 - 130           Ethylene Oxide         ND         50.0         885         1800         83.5         78 - 130           Heythere         ND         50.0         885         1800         89.5         78 - 130           Heythere         ND         50.0         980         1800         98.0         78 - 130           Sopropanol (2-Propanol)         ND         50.0         980         1800         96.0         78 - 130           Methanol <td< th=""><th>Acetone</th><th>ND</th><th>250.0</th><th>915</th><th>1000</th><th>91.5</th><th>70 - 130</th><th></th></td<>	Acetone	ND	250.0	915	1000	91.5	70 - 130	
Blatanes         ND         258.0         1650         2000         82.3         78 - 130           Cumene         ND         59.0         922         1000         92.2         78 - 130           Cyclohexane         ND         59.0         895         1000         89.5         78 - 130           Ethyl Acetate         ND         259.0         92.8         1000         97.2         78 - 130           Ethyl Ether         ND         259.0         872         1000         87.2         78 - 130           Ethylae Glycol         ND         259.0         885         1000         87.2         78 - 130           Ethylaene Oxide         ND         59.0         885         1000         88.5         78 - 130           Heytane         ND         59.0         885         1000         89.5         78 - 130           Hexanes         ND         59.0         4430         5900         88.6         78 - 130           Isopropanol (2-Propanol)         ND         59.0         980         1000         98.0         78 - 130           Methanol         ND         59.0         99.5         1000         99.5         78 - 130           Pentanes	Acetonitrile	ND	50.0	967	1000	96.7	70 - 130	
Cumene         ND         58.8         922         1000         92.2         70 - 138           Cyclohexane         ND         58.8         895         1000         89.5         70 - 130           Ethyl Acetate         ND         250.0         928         1000         92.8         70 - 130           Ethyl Ether         ND         250.0         872         1000         87.2         70 - 130           Ethylane Glycol         ND         250.0         835         1000         83.5         70 - 130           Ethylane Oxide         ND         50.0         885         1000         88.5         70 - 130           Heytane         ND         250.0         895         1000         89.5         70 - 130           Hexanes         ND         50.0         4430         5000         88.6         70 - 130           Isopropanol (2-Propanol)         ND         50.0         980         1000         98.0         70 - 130           Methanol         ND         250.0         960         1000         96.0         70 - 130           Dichloromethane         ND         50.0         905         1000         90.5         70 - 130           Propane	Benzene	ND	2.0	17.4	20.0	87.2	70 - 130	
Cyclohexane         ND         50.0         895         1000         89.5         70 - 130           Ethyl Acetate         ND         250.0         928         1000         92.8         70 - 130           Ethyl Ether         ND         250.0         872         1000         87.2         70 - 130           Ethylene Glycol         ND         250.0         835         1000         83.5         70 - 130           Ethylene Oxide         ND         50.0         885         1000         89.5         70 - 130           Heytane         ND         250.0         895         1000         89.5         70 - 130           Hexanes         ND         50.0         4430         5000         88.6         70 - 130           Isopropanol (2-Propanol)         ND         50.0         980         1000         98.0         70 - 130           Isopropyl Acetate         ND         250.0         941         1000         94.1         70 - 130           Methanol         ND         250.0         905         1000         90.5         70 - 130           Pentanes         ND         250.0         732         1000         73.2         70 - 130           Propane <th>Butanes</th> <th>ND</th> <th>250.0</th> <th>1650</th> <th>2000</th> <th>82.3</th> <th>70 - 130</th> <th></th>	Butanes	ND	250.0	1650	2000	82.3	70 - 130	
Ethyl Acetate ND 250.0 928 1000 92.8 70 - 130 Ethyl Ether ND 250.0 872 1000 87.2 70 - 130 Ethylene Glycol ND 250.0 835 1000 83.5 70 - 130 Ethylene Oxide ND 50.0 885 1000 88.5 70 - 130 Ethylene Oxide ND 50.0 885 1000 88.5 70 - 130 Ethylene Oxide ND 50.0 885 1000 88.5 70 - 130 Ethylene Oxide ND 50.0 895 1000 89.5 70 - 130 Ethylene Oxide ND 50.0 895 1000 88.6 70 - 130 Ethylene Oxide ND 50.0 980 1000 98.0 70 - 130 Ethylene Oxide ND 50.0 980 1000 98.0 70 - 130 Ethylene Oxide ND 50.0 980 1000 98.0 70 - 130 Ethylene Oxide ND 50.0 980 1000 98.0 70 - 130 Ethylene Oxide ND 50.0 980 980 1000 98.0 70 - 130 Ethylene Oxide ND 50.0 980 980 1000 98.0 70 - 130 Ethylene Oxide ND 50.0 980 980 1000 98.0 70 - 130 Ethylene Oxide ND 50.0 980 980 1000 99.5 70 - 130 Ethylene Oxide ND 50.0 980 980 980 98.5 70 - 130 Ethylene Oxide ND 50.0 980 980 980 98.5 70 - 130 Ethylene Oxide ND 50.0 980 980 980 98.5 70 - 130 Ethylene Oxide ND 50.0 980 980 980 98.5 70 - 130 Ethylene Oxide ND 50.0 980 980 980 98.0 98.5 70 - 130 Ethylene Oxide ND 50.0 980 980 980 98.5 70 - 130 Ethylene Oxide ND 50.0 980 980 980 98.0 98.0 98.0 98.0 98.0	Cumene	ND	50.0	922	1000	92.2	70 - 130	
Ethyl Ether ND 250.0 872 1000 87.2 76 - 130 Ethylene Glycol ND 250.0 835 1000 83.5 70 - 130 Ethylene Oxide ND 50.0 885 1000 88.5 70 - 130 Ethylene Oxide ND 250.0 895 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 50.0 895 1000 89.6 70 - 130 Ethylene Oxide ND 50.0 980 1000 98.0 70 - 130 Ethylene Oxide ND 50.0 980 1000 98.0 70 - 130 Ethylene Oxide ND 50.0 960 1000 94.1 70 - 130 Ethylene Oxide ND 50.0 960 1000 96.0 70 - 130 Ethylene Oxide ND 50.0 905 1000 90.5 70 - 130 Ethylene Oxide ND 50.0 905 1000 90.5 70 - 130 Ethylene Oxide ND 50.0 905 1000 90.5 70 - 130 Ethylene Oxide ND 50.0 905 1000 90.5 70 - 130 Ethylene Oxide ND 50.0 905 1000 90.5 70 - 130 Ethylene Oxide ND 50.0 905 1000 90.5 70 - 130 Ethylene Oxide ND 50.0 90.0 90.5 70 - 130 Ethylene Oxide ND 50.0 90.0 90.0 90.0 90.0 90.0 90.0 90.0	Cyclohexane	ND	50.0	895	1000	89.5	70 - 130	
Ethylene Glycol ND 250.0 835 1000 83.5 70 - 130 Ethylene Oxide ND 50.0 885 1000 88.5 70 - 130 Heptane ND 250.0 895 1000 89.5 70 - 130 Hexanes ND 50.0 4430 5000 88.6 70 - 130 Isopropanol (2-Propanol) ND 50.0 980 1000 98.0 70 - 130 Isopropyl Acetate ND 250.0 941 1000 98.0 70 - 130 Methanol ND 250.0 960 1000 96.0 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 905 1000 90.5 70 - 130 Propane ND 250.0 732 1000 73.2 70 - 130 Tetrahydrofuran ND 50.0 923 1000 92.3 70 - 130 Toluene ND 50.0 912 1000 91.2 70 - 130	Ethyl Acetate	ND	250.0	928	1000	92.8	70 - 130	
Ethylene Oxide  ND 50.0 885 1000 88.5 70 - 130  Hexanes  ND 50.0 895 1000 89.5 70 - 130  Hexanes  ND 50.0 980 1000 98.0 70 - 130  Isopropanol (2-Propanol)  ND 50.0 980 1000 98.0 70 - 130  Isopropyl Acetate  ND 250.0 980 1000 98.0 70 - 130  Methanol  ND 250.0 960 1000 96.0 70 - 130  Dichloromethane  ND 50.0 905 1000 90.5 70 - 130  Pentanes  ND 250.0 905 1000 90.5 70 - 130  Propane  ND 250.0 732 1000 73.2 70 - 130  Tetrahydrofuran  ND 50.0 912 1000 91.2 70 - 130	Ethyl Ether	ND	250.0	872	1000	87.2	70 - 130	
Heptane ND 250.0 895 1000 89.5 70 - 130 Hexanes ND 50.0 98.0 4430 5000 88.6 70 - 130 Isopropanol (2-Propanol) ND 50.0 98.0 1000 98.0 70 - 130 Isopropyl Acetate ND 250.0 941 1000 94.1 70 - 130 Methanol ND 250.0 960 1000 96.0 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 250.0 3000 85.4 70 - 130 Propane ND 250.0 732 1000 73.2 70 - 130 Tetrahydrofuran ND 50.0 923 1000 92.3 70 - 130 Tetrahydrofuran ND 50.0 923 1000 92.3 70 - 130 Tetrahydrofuran ND 50.0 912 1000 91.2 70 - 130 Tetrahydrofuran ND 50.0 912 912 9100 91.2 70 - 130 Tetrahydrofuran ND 50.0 912 9100 91.2 70 - 130 Tetrahydrofuran ND 50.0 912 9100 9100 91.2 70 - 130 Tetrahydrofuran ND 50.0 912 9100 9100 9100 91.2 70 - 130 Tetrahydrofuran ND 50.0 9100 9100 9100 9100 9100 9100 9100 9	Ethylene Glycol	ND	250.0	835	1000	83.5	70 - 130	
Hexanes ND 50.0 4430 5000 88.6 70 - 130 Isopropanol (2-Propanol) ND 50.0 980 1000 98.0 70 - 130 Isopropyl Acetate ND 250.0 941 1000 94.1 70 - 130 Methanol ND 250.0 960 1000 96.0 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 250.0 3000 85.4 70 - 130 Propane ND 250.0 732 1000 73.2 70 - 130 Tetrahydrofuran ND 50.0 923 1000 92.3 70 - 130 Toluene ND 50.0 912 1000 91.2 70 - 130	Ethylene Oxide	ND	50.0	885	1000	88.5	70 - 130	
Isopropanol (2-Propanol)       ND       50.0       980       1000       98.0       70 - 130         Isopropyl Acetate       ND       250.0       941       1000       94.1       70 - 130         Methanol       ND       250.0       960       1000       96.0       70 - 130         Dichloromethane       ND       50.0       905       1000       90.5       70 - 130         Pentanes       ND       250.0       250.0       2560       3000       85.4       70 - 130         Propane       ND       250.0       732       1000       73.2       70 - 130         Tetrahydrofuran       ND       50.0       923       1000       92.3       70 - 130         Toluene       ND       50.0       912       1000       91.2       70 - 130	Heptane	ND	250.0	895	1000	89.5	70 - 130	
Isopropyl Acetate       ND       250.0       941       1000       94.1       70 - 130         Methanol       ND       250.0       960       1000       96.0       70 - 130         Dichloromethane       ND       50.0       905       1000       90.5       70 - 130         Pentanes       ND       250.0       2560       3000       85.4       70 - 130         Propane       ND       250.0       732       1000       73.2       70 - 130         Tetrahydrofuran       ND       50.0       923       1000       92.3       70 - 130         Toluene       ND       50.0       912       1000       91.2       70 - 130	Hexanes	ND	50.0	4430	5000	88.6	70 - 130	
Methanol ND 250.0 960 1000 96.0 70 - 130 Dichloromethane ND 50.0 905 1000 90.5 70 - 130 Pentanes ND 250.0 250.0 3000 85.4 70 - 130 Propane ND 250.0 732 1000 73.2 70 - 130 Tetrahydrofuran ND 50.0 923 1000 92.3 70 - 130 Toluene ND 50.0 912 1000 91.2 70 - 130	Isopropanol (2-Propanol)	ND	50.0	980	1000	98.0	70 - 130	
Dichloromethane       ND       59.0       995       1000       90.5       70 - 130         Pentanes       ND       250.0       2560       3000       85.4       70 - 130         Propane       ND       250.0       732       1000       73.2       70 - 130         Tetrahydrofuran       ND       50.0       923       1000       92.3       70 - 130         Toluene       ND       50.0       912       1000       91.2       70 - 130	Isopropyl Acetate	ND	250.0	941	1000	94.1	70 - 130	
Pentanes         ND         250.0         2560         3000         85.4         70 - 130           Propane         ND         250.0         732         1000         73.2         70 - 130           Tetrahydrofuran         ND         50.0         923         1000         92.3         70 - 130           Toluene         ND         50.0         912         1000         91.2         70 - 130	Methanol	ND	250.0	960	1000	96.0	70 - 130	
Propane         ND         250.0         732         1000         73.2         70 - 130           Tetrahydrofuran         ND         50.0         923         1000         92.3         70 - 130           Toluene         ND         50.0         912         1000         91.2         70 - 130	Dichloromethane	ND	50.0	905	1000	90.5	70 - 130	
Tetrahydrofuran ND 50.0 923 1000 92.3 70 - 130 Toluene ND 50.0 912 1000 91.2 70 - 130	Pentanes	ND	250.0	2560	3000	85.4	70 - 130	
Toluene ND 50.0 912 1000 91.2 70 - 130	Propane	ND	250.0	732	1000	73.2	70 - 130	
	Tetrahydrofuran	ND	50.0	923	1000	92.3	70 - 130	
Xylenes ND 50.0 3750 4000 93.8 70 - 130	Toluene	ND	50.0	912	1000	91.2	70 - 130	
	Xylenes	ND	50.0	3750	4000	93.8	70 - 130	



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts
Sample Date: 12/9/2019
Analysis Date: 12/11/2019
Report Date: 12/16/2019

Metrc Batch ID: 1A4010300016315000018978 Metrc Sample ID: 1A4010300016315000019795 Harvest/Process Date: 12/6/2019 Report ID:

LS-191216-14

### **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