

Farmer's Friend Extract 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts
Sample Date: 1/6/2020
Analysis Date: 1/7/2020
Report Date: 1/9/2020

Metrc Batch ID: 1A4010300016315000020848 Metrc Sample ID: 1A4010300016315000020884 Harvest/Process Date: 1/3/2020 Report ID:

LS-200109-7

#### **Potency**

Potency Analysis Date: 1/8/2020 Potency Batch ID: CAN\_010820C Potency Method: JAOAC 2015.1

89.2%

Total THC

0.0938%

Total CBD

Samples: RNZ-WGX-WJF, BHW-CWZ-JNT



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit:
<b>Д9ТНС</b>	Delta-9 Tetrahydrocannabinol	0.16	4.64	87.1	91.2	89.2	
THCA	Tetrahydrocannabinolic acid	0.16	0.00	ND	ND	ND	
CBD	Cannabidiol	0.16	15.8	ND	0.188	0.0938	•
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	24.1	0.891	1.14	1.01	•
CBG	Cannabigerol*	0.16	11.2	3.11	3.48	3.30	•
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	2.92	1.24	1.28	1.26	•
CBCA	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
CBN	Cannabinol	0.16	3.10	0.628	0.648	0.638	•
Total THC	Δ9THC + (THCA × 0.877)		4.64	87.1	91.2	89.2	
Total CBD	CBD + (CBDA × 0.877)		15.8	ND	0.188	0.0938	•
Total			4.84	93.0	98.0	95.5	

### **Compliance**

Pesticides	Within limits	Analysis Date: 1/8/2020	Pass 🕢
Solvents	Within limits	Analysis Date: 1/9/2020	Pass 🕢
Potency	Within limits	Analysis Date: 1/8/2020	Pass 🕢

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



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 1/6/2020 Analysis Date: 1/7/2020 Report Date: 1/9/2020

Metrc Batch ID: 1A4010300016315000020848 Metrc Sample ID: 1A4010300016315000020884

Terpene Analysis Date: 1/7/2020

Terpene Batch ID: TRP 010720A

Total

Harvest/Process Date: 1/3/2020 Report ID:

LS-200109-7

Method: JAOAC 2015.1

Unit: %

Terpenes\*
Sample Data

Analyte	Avg.	Notes
β-Caryophyllene	1.20%	
β-Farnesene 2	0.486%	
Humulene	0.342%	
β-Myrcene	0.172%	
Linalool	0.159%	
α-Bisabolol	0.155%	
Limonene	0.0846%	
β-Ocimene	0.0686%	
Terpinolene	0.0629%	
β-Pinene	0.0316%	
α-Pinene	0.0214%	
Selinadiene	0.0189%	
α-Terpinene	0.00707%	
α-Phellandrene	0.00706%	
Eucalyptol	0.00513%	
α-Ocimene	0.00504%	
γ-Terpinene	0.00400%	
Fenchone	0.00295%	
Camphene	0.00217%	
Azulene	ND	
Borneol	ND	
Camphore	ND	
Caryophyllene Oxide	ND	
Cedrol	ND	
Cymene	ND	
Fenchol	ND	
Geraniol	ND	
Geranyl Acetate	ND	
Guaiol	ND	
OudIOI	NU	

Analyte	Avg.	Notes	
Isoborneol	ND		
Isopulegol	ND		
Nerol	ND		
Pulegone	ND		
Sabinene	ND		
Sabinene Hydrate	ND		
Valencene	ND		
cis-Nerolidol	ND		
trans-Nerolidol	ND		
Δ3-Carene	ND		
α-Cedrene	ND		
α-Terpineol	ND		
β-Farnesene 1	ND		
γ-Terpineol	ND		

2.84%



6451 NF Colwood Wy Portland, OR 97218 503-442-8653

Sample Type: Extracts Sample Date: 1/6/2020 Analysis Date: 1/7/2020 Report Date: 1/9/2020

1A4010300016315000020848 Metrc Sample ID: 1A4010300016315000020884 Harvest/Process Date: 1/3/2020 Report ID:

LS-200109-7

**Pesticides** Sample Data Pesticides Analysis Date: 1/8/2020 Pesticides Batch ID: PST 010820A

Method: EN 15662 Unit: µg/g (ppm)

Pass 🕢

Analyte	BHW-CWZ-JNT	RNZ-WGX-WJF	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	BHW-CWZ-JNT	RNZ-WGX-WJF	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: 1A4010300016315000020848 Metrc Sample ID: 1A4010300016315000020884 Harvest/Process Date: 1/3/2020 Report ID:

LS-200109-7



### Pesticides Quality Control Data

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Note
Abamectin	ND	0.1	0.876	1.00	87.6	50 - 150	
Acephate	ND	0.1	0.686	1.00	68.6	50 - 150	
Acequinocyl	ND	1.5	0.536	1.00	53.6	50 - 150	
Acetamiprid	ND	0.1	0.986	1.00	98.6	50 - 150	
Aldicarb	ND	0.1	0.967	1.00	96.7	50 - 150	
Azoxystrobin	ND	0.1	1.01	1.00	101	50 - 150	
Bifenazate	ND	0.1	ND	1.00	1.00	50 - 150	LR
Bifenthrin	ND	0.1	0.825	1.00	82.5	50 - 150	
Boscalid	ND	0.1	0.897	1.00	89.7	50 - 150	
Carbaryl	ND	0.1	0.938	1.00	93.8	50 - 150	
Carbofuran	ND	0.1	0.973	1.00	97.3	50 - 150	
Chlorantranilip	role ND	0.1	0.940	1.00	94.0	50 - 150	
Chlorfenapyr	ND	0.1	0.973	1.00	97.3	50 - 150	
Chlorpyrifos	ND	0.1	0.953	1.00	95.3	50 - 150	
Clofentezine	ND	0.1	0.833	1.00	83.3	50 - 150	
Cyfluthrin	ND	0.5	0.996	1.00	99.6	50 - 150	
Cypermethrin	ND	0.1	0.900	1.00	90.0	50 - 150	
Daminozide	ND	0.5	ND	1.00	0.00	10 - 150	ND
Diazinon	ND	0.1	1.03	1.00	103	50 - 150	
Dichlorvos (DDVF	P) ND	0.5	0.851	1.00	85.1	50 - 150	
Dimethoate	ND	0.1	0.928	1.00	92.8	50 - 150	
Ethoprophos	ND	0.1	1.01	1.00	101	50 - 150	
Etofenprox	ND	0.1	0.815	1.00	81.5	50 - 150	
Etoxazole	ND	0.1	0.897	1.00	89.7	50 - 150	
Fenoxycarb	ND	0.1	0.983	1.00	98.3	50 - 150	
Fenpyroximate	ND	0.1	0.859	1.00	85.9	50 - 150	
Fipronil	ND	0.1	0.996	1.00	99.6	50 - 150	
Flonicamid	ND	0.1	0.940	1.00	94.0	50 - 150	
Fludioxonil	ND	0.1	0.951	1.00	95.1	50 - 150	
Hexythiazox	ND	0.1	0.919	1.00	91.9	50 - 150	
Imazalil	ND	0.1	0.997	1.00	99.7	50 - 150	
Imidacloprid	ND	0.1	0.958	1.00	95.8	50 - 150	
Kresoxim-methyl	ND	0.1	1.02	1.00	102	50 - 150	
Malathion	ND	0.1	1.04	1.00	104	50 - 150	

Pesticides QC Analysis Date: 1/8/2020 Pesticides QC Batch ID: PST 010820A

Method: EN 15662 Unit: μg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Metalaxyl	ND	0.1	1.00	1.00	100	50 - 150	
Methiocarb	ND	0.1	0.979	1.00	97.9	50 - 150	
Methomyl	ND	0.1	0.931	1.00	93.1	50 - 150	
Methyl Parathion	ND	0.2	0.752	1.00	75.2	30 - 150	
MGK-264	ND	0.2	0.674	0.600	112	50 - 150	
Myclobutanil	ND	0.1	1.04	1.00	104	50 - 150	
Naled	ND	0.2	0.894	1.00	89.4	50 - 150	
0xamyl	ND	0.1	0.928	1.00	92.8	50 - 150	
Paclobutrazol	ND	0.1	0.937	1.00	93.7	50 - 150	
Permethrins	ND	0.1	0.850	1.00	85.0	50 - 150	
Phosmet	ND	0.1	0.995	1.00	99.5	50 - 150	
Piperonyl Butoxide	ND	0.1	0.925	1.00	92.5	50 - 150	
Prallethrin	ND	0.1	0.990	1.00	99.0	50 - 150	
Propiconazole	ND	0.1	0.986	1.00	98.6	50 - 150	
Propoxur	ND	0.1	1.02	1.00	102	50 - 150	
Pyrethrins	ND	0.5	0.958	1.00	95.8	50 - 150	
Pyridaben	ND	0.1	0.858	1.00	85.8	50 - 150	
Spinosad	ND	0.1	0.770	1.00	77.0	50 - 150	
Spiromesifen	ND	0.1	0.940	1.00	94.0	50 - 150	
Spirotetramat	ND	0.1	1.04	1.00	104	50 - 150	
Spiroxamine	ND	0.1	0.327	1.00	32.7	50 - 150	LR
Tebuconazole	ND	0.1	1.09	1.00	109	50 - 150	
Thiacloprid	ND	0.1	1.02	1.00	102	50 - 150	
Thiamethoxam	ND	0.1	1.04	1.00	104	50 - 150	
Trifloxystrobin	ND	0.1	0.985	1.00	98.5	50 - 150	



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Metrc Batch ID: 1A4010300016315000020848 Metrc Sample ID: 1A4010300016315000020884 Harvest/Process Date: 1/3/2020 Report ID:

LS-200109-7

	<b>Residual Solvents</b>
<b>9</b>	Residual Solvents Sample Data

Solvents Analysis Date: 1/9/2020 Solvents Batch ID: RES 010820A Method: EPA 5021A Unit: μg/g (ppm) Pass 🕢

Analyte	BHW-CWZ-JNT	RNZ-WGX-WJF	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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LS-200109-7

Residual Solvents
Quality Control Data

Solvents QC Analysis Date: 1/9/2020 Solvents QC Batch ID: RES\_010820A Method: EPA 5021A Unit: μg/g (ppm)

2-Butanol ND 258.8 939 1000 93.9 78 - 130 2-Ethoxyethanol ND 50.0 889 1000 88.9 76 - 130 Acetone ND 250.0 879 1000 87.9 76 - 130 Acetone ND 250.0 879 1000 87.9 76 - 130 Acetonitrile ND 50.0 879 1000 87.9 76 - 130 Acetonitrile ND 50.0 932 1000 93.2 76 - 130 Butanes ND 250.0 1510 2000 75.7 76 - 130 Butanes ND 50.0 965 1000 96.5 76 - 130 Cumene ND 50.0 965 1000 96.5 76 - 130 Cumene ND 50.0 965 1000 96.5 76 - 130 Ethyl Acetate ND 250.0 914 1000 91.4 76 - 130 Ethyl Acetate ND 250.0 933 1000 99.2 76 - 130 Ethylene Glycol ND 250.0 833 1000 83.3 76 - 130 Ethylene Oxide ND 50.0 857 1000 85.7 76 - 130 Heptane ND 50.0 857 1000 85.7 76 - 130 Heptane ND 50.0 86.0 857 1000 85.7 76 - 130 Heptane ND 50.0 86.0 857 1000 85.7 76 - 130 Heptane ND 50.0 86.0 867 1000 85.7 76 - 130 Hexanes ND 50.0 918 1000 85.7 76 - 130 Isopropanol (2-Propanol) ND 50.0 934 1000 93.4 76 - 130 Isopropanol (2-Propanol) ND 50.0 86.0 934 1000 93.4 76 - 130 Hethanol ND 250.0 861 1000 93.4 76 - 130 Pentanes ND 50.0 861 1000 93.4 76 - 130 Pentanes ND 50.0 883 1000 88.3 76 - 130 Pentanes ND 50.0 883 1000 88.3 76 - 130 Pentanes ND 50.0 883 1000 88.3 76 - 130 Pentanes ND 50.0 883 1000 90.5 76 - 130 Pentanes ND 50.0 883 1000 90.5 76 - 130 Pentanes ND 50.0 883 1000 90.5 76 - 130 Pentanes ND 50.0 90.0 90.0 90.0 90.5 76 - 130 Pentanes ND 50.0 90.0 90.0 90.0 90.5 76 - 130 Pentanes ND 50.0 90.0 90.0 90.0 90.5 76 - 130 Pentanes ND 50.0 90.0 90.0 90.0 90.5 76 - 130	Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
2-Ethoxyethanol         ND         50.0         889         1000         88.9         70 - 130           Acetone         ND         250.0         879         1000         87.9         70 - 130           Acetonitrile         ND         50.0         932         1000         93.2         70 - 130           Benzene         ND         2.0         17.4         20.0         87.2         70 - 130           Butanes         ND         250.0         1518         2000         75.7         70 - 130           Cumene         ND         50.0         965         1000         96.5         70 - 130           Ethyl Acetate         ND         250.0         857         1000         85.7         70 - 130           Ethyl Ether         ND         250.0         833         1000         83.3         70 - 130           Ethylene Glycol         ND         50.0         857         1000         85.7         70 - 130           Ethylene Oxide         ND         50.0         857         1000         85.7         70 - 130           Hexanes         ND         50.0         98         4160         83.2         70 - 130           Isopropal (2-Propanol)	1,4-Dioxane	ND	50.0	953	1000	95.3	70 - 130	
Acetone Acetonitrile ND 250.0 879 1000 93.2 70 - 130 Acetonitrile ND 50.0 932 1000 93.2 70 - 130 Benzene ND 2.0 17.4 20.0 87.2 70 - 130 Butanes ND 250.0 1510 2000 75.7 70 - 130 Cumene ND 50.0 965 1000 96.5 70 - 130 Cumene ND 50.0 857 1000 96.5 70 - 130 Cumene ND 50.0 857 1000 96.5 70 - 130 Cumene ND 250.0 857 1000 96.5 70 - 130 Cumene Lithyl Acetate ND 250.0 857 1000 85.7 70 - 130 Cittyl Ether ND 250.0 833 1000 83.3 70 - 130 Cittylene Glycol ND 250.0 833 1000 83.3 70 - 130 Cittylene Oxide ND 50.0 857 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 857 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 857 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 857 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 857 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 850 864 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 850 864 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 850 864 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 850 864 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 850 864 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 850 864 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 850 864 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 850 857 1000 85.7 70 - 130 Cittylene Oxide ND 50.0 850 850 850 850 850 850 850 850 850 85	2-Butanol	ND	250.0	939	1000	93.9	70 - 130	
Acetonitrile ND 58.8 932 1808 93.2 76 - 139 Benzene ND 2.8 17.4 28.0 87.2 76 - 139 Butanes ND 259.0 1510 2008 75.7 76 - 130 Cumene ND 58.0 965 1808 96.5 76 - 130 Cumene ND 58.0 965 1808 96.5 76 - 130 Cyclohexane ND 58.0 97.1 1808 85.7 76 - 130 Ethyl Acetate ND 250.0 914 1808 91.4 76 - 130 Ethyl Lether ND 250.0 933 1808 91.4 76 - 130 Ethylene Glycol ND 250.0 983 1808 98.7 76 - 130 Ethylene Oxide ND 58.0 857 1808 85.7 76 - 130 Ethylene Oxide ND 58.0 87 1808 85.7 76 - 130 Ethylene Oxide ND 58.0 87 1808 85.7 76 - 130 Ethylene Oxide ND 59.0 87 1808 85.7 1808 85.7 76 - 130 Ethylene Oxide ND 59.0 87 1808 85.7 1808 85.7 76 - 130 Ethylene Oxide ND 59.0 86.1 1808 85.7 76 - 130 Exprepanol (2-Propanol) ND 59.0 934 1808 99.4 76 - 130 Exprepanol (2-Propanol) ND 59.0 918 1808 99.4 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.4 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.4 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.4 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.4 79.1 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.5 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.5 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.5 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.5 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.5 76 - 130 Exprepanol (2-Propanol) ND 59.0 883 1808 99.5 76 - 130 Exprepanol (2-Propanol) ND 59.0 99.5 1808 99.5 76 - 130 Exprepanol (2-Propanol) ND 59.0 99.5 1808 99.5 76 - 130	2-Ethoxyethanol	ND	50.0	889	1000	88.9	70 - 130	
Benzene       ND       2.8       17.4       20.8       87.2       76 - 138         Butanes       ND       250.8       1510       2000       75.7       76 - 138         Cumene       ND       50.8       965       1000       96.5       76 - 130         Cyclohexane       ND       50.8       857       1000       85.7       76 - 130         Ethyl Acetate       ND       250.0       914       1000       83.3       76 - 130         Ethyl Ether       ND       250.0       833       1000       83.3       76 - 130         Ethylene Glycol       ND       250.0       837       1000       85.7       76 - 130         Ethylene Oxide       ND       50.0       857       1000       85.7       76 - 130         Heytane       ND       50.0       857       1000       85.7       76 - 130         Heytane       ND       50.0       844       1000       83.2       70 - 130         Heytane       ND       50.0       934       1000       93.4       70 - 130         Isopropapal (2-Propanol)       ND       50.0       883       1000       91.8       70 - 130         Methanol<	Acetone	ND	250.0	879	1000	87.9	70 - 130	
Butanes ND 250.0 1510 2000 75.7 70 - 130 Cumene ND 50.0 965 1000 96.5 70 - 130 Cyclohexane ND 50.0 857 1000 85.7 70 - 130 Ethyl Acetate ND 250.0 914 1000 91.4 70 - 130 Ethyl Ether ND 250.0 833 1000 83.3 70 - 130 Ethylene Glycol ND 250.0 902 1000 90.2 70 - 130 Ethylene Oxide ND 50.0 857 1000 85.7 70 - 130 Heptane ND 550.0 844 1000 85.7 70 - 130 Heytane ND 50.0 844 1000 84.4 70 - 130 Hexanes ND 50.0 4160 5000 83.2 70 - 130 Isopropanol (2-Propanol) ND 50.0 934 1000 93.4 70 - 130 Isopropyl Acetate ND 250.0 918 1000 91.8 70 - 130 Methanol ND 250.0 861 1000 91.8 70 - 130 Methanol ND 50.0 883 1000 91.8 70 - 130 Methanol ND 50.0 883 1000 91.8 70 - 130 Pentanes ND 50.0 883 1000 91.8 70 - 130 Pentanes ND 50.0 883 1000 91.8 70 - 130 Pentanes ND 50.0 883 1000 91.8 70 - 130 Pentanes ND 50.0 883 1000 91.0 88.3 70 - 130 Propane ND 50.0 905 1000 90.5 70 - 130 Propane ND 50.0 905 1000 90.5 70 - 130 Tetrahydrofuran ND 50.0 905 1000 90.5 70 - 130	Acetonitrile	ND	50.0	932	1000	93.2	70 - 130	
Cumene         ND         50.0         965         1000         96.5         70 - 130           Cyclohexane         ND         50.0         857         1000         85.7         70 - 130           Ethyl Acetate         ND         250.0         914         1000         91.4         70 - 130           Ethyl Ether         ND         250.0         833         1000         83.3         70 - 130           Ethylene Glycol         ND         250.0         857         1000         85.7         70 - 130           Ethylene Oxide         ND         50.0         857         1000         85.7         70 - 130           Heytane         ND         250.0         844         1000         84.4         70 - 130           Hexanes         ND         50.0         4160         5000         83.2         70 - 130           Isopropyl Acetate         ND         50.0         934         1000         91.8         70 - 130           Methanol         ND         250.0         861         1000         86.1         70 - 130           Dichloromethane         ND         50.0         833         1000         85.4         70 - 130           Propane <t< th=""><th>Benzene</th><th>ND</th><th>2.0</th><th>17.4</th><th>20.0</th><th>87.2</th><th>70 - 130</th><th></th></t<>	Benzene	ND	2.0	17.4	20.0	87.2	70 - 130	
Cyclohexane         ND         50.0         857         1000         85.7         70 - 130           Ethyl Acetate         ND         250.0         914         1000         91.4         70 - 130           Ethyl Ether         ND         250.0         833         1000         83.3         70 - 130           Ethylene Glycol         ND         250.0         902         1000         90.2         70 - 130           Ethylene Oxide         ND         50.0         857         1000         85.7         70 - 130           Heytane         ND         250.0         844         1000         84.4         70 - 130           Hexanes         ND         50.0         4160         5000         83.2         70 - 130           Isopropanol (2-Propanol)         ND         50.0         934         1000         93.4         70 - 130           Isopropyl Acetate         ND         250.0         918         1000         91.8         70 - 130           Methanol         ND         50.0         883         1000         86.1         70 - 130           Dichloromethane         ND         50.0         2370         3000         79.1         70 - 130           Prop	Butanes	ND	250.0	1510	2000	75.7	70 - 130	
Ethyl Acetate ND 250.0 914 1000 91.4 70 - 130 Ethyl Ether ND 250.0 933 1000 91.4 70 - 130 Ethylene Glycol ND 250.0 902 1000 90.2 70 - 130 Ethylene Oxide ND 50.0 857 1000 85.7 70 - 130 Ethylene Oxide ND 50.0 844 1000 84.4 70 - 130 Ethylene Oxide ND 50.0 844 1000 84.4 70 - 130 Ethylene Oxide ND 50.0 840 844 1000 84.4 70 - 130 Ethylene Oxide ND 50.0 840 840 934 1000 83.2 70 - 130 Ethylene Oxide ND 50.0 934 1000 93.4 70 - 130 Ethylene Oxide ND 50.0 934 1000 93.4 70 - 130 Ethylene Oxide ND 50.0 918 1000 93.4 70 - 130 Ethylene Oxide ND 50.0 918 1000 91.8 70 - 130 Ethylene Oxide ND 50.0 861 1000 86.1 70 - 130 Ethylene Oxide ND 50.0 883 1000 88.3 70 - 130 Ethylene Oxide ND 50.0 883 1000 88.3 70 - 130 Ethylene Oxide ND 50.0 883 1000 80.5 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 50.0 903 1000 90.5 70 - 130 Ethylene Oxide ND 50.0 900 900 90.5 70 - 130 Ethylene Oxide ND 50.0 900 900 90.5 70 - 130 Ethylene Oxide ND 50.0 900 90.5 70 - 130 Ethylene Oxide ND	Cumene	ND	50.0	965	1000	96.5	70 - 130	
Ethyl Ether ND 250.0 833 1000 83.3 70 - 130 Ethylene Glycol ND 250.0 902 1000 90.2 70 - 130 Ethylene Oxide ND 50.0 857 1000 85.7 70 - 130 Heptane ND 250.0 844 1000 84.4 70 - 130 Hexanes ND 50.0 4160 5000 83.2 70 - 130 Isopropanol (2-Propanol) ND 50.0 934 1000 93.4 70 - 130 Isopropyl Acetate ND 250.0 918 1000 91.8 70 - 130 Methanol ND 250.0 861 1000 86.1 70 - 130 Ibolloromethane ND 50.0 883 1000 88.3 70 - 130 Pentanes ND 250.0 883 1000 88.3 70 - 130 Pentanes ND 250.0 883 1000 88.3 70 - 130 Pentanes ND 250.0 883 1000 88.3 70 - 130 Pentanes ND 250.0 883 1000 88.3 70 - 130 Pentanes ND 250.0 950 950 950 9654 1000 90.5 70 - 130 Propane ND 50.0 905 1000 90.5 70 - 130 Propane ND 5	Cyclohexane	ND	50.0	857	1000	85.7	70 - 130	
Ethylene Glycol ND 250.0 902 1000 90.2 70 - 130  Ethylene Oxide ND 50.0 857 1000 85.7 70 - 130  Heptane ND 250.0 844 1000 84.4 70 - 130  Hexanes ND 50.0 4160 5000 83.2 70 - 130  Isopropanol (2-Propanol) ND 50.0 934 1000 93.4 70 - 130  Isopropyl Acetate ND 250.0 918 1000 91.8 70 - 130  Methanol ND 250.0 861 1000 91.8 70 - 130  Dichloromethane ND 50.0 883 1000 88.3 70 - 130  Pentanes ND 250.0 370 3000 79.1 70 - 130  Propane ND 250.0 654 1000 90.5 70 - 130  Tetrahydrofuran ND 50.0 905 1000 90.5 70 - 130  Toluene ND 50.0 923 1000 92.3 70 - 130	Ethyl Acetate	ND	250.0	914	1000	91.4	70 - 130	
Ethylene Oxide  ND  SO  SO  SO  SO  SO  SO  SO  SO  SO  S	Ethyl Ether	ND	250.0	833	1000	83.3	70 - 130	
Heptane ND 250.0 844 1000 84.4 70 - 130 Hexanes ND 50.0 4160 5000 83.2 70 - 130 Isopropanol (2-Propanol) ND 50.0 934 1000 93.4 70 - 130 Isopropyl Acetate ND 250.0 918 1000 91.8 70 - 130 Methanol ND 250.0 861 1000 86.1 70 - 130 Dichloromethane ND 50.0 883 1000 88.3 70 - 130 Pentanes ND 250.0 2370 3000 79.1 70 - 130 Propane ND 250.0 654 1000 65.4 70 - 130 Tetrahydrofuran ND 50.0 905 1000 90.5 70 - 130 Tetrahydrofuran ND 50.0 905 1000 90.5 70 - 130 Tetrahydrofuran ND 50.0 905 1000 90.5 70 - 130 Tetrahydrofuran ND 50.0 903 1000 90.5 70 - 13	Ethylene Glycol	ND	250.0	902	1000	90.2	70 - 130	
Hexanes ND 50.0 4160 5000 83.2 70 - 130 Isopropanol (2-Propanol) ND 50.0 934 1000 93.4 70 - 130 Isopropyl Acetate ND 250.0 918 1000 91.8 70 - 130 Methanol ND 250.0 861 1000 86.1 70 - 130 Dichloromethane ND 50.0 883 1000 88.3 70 - 130 Pentanes ND 250.0 2370 3000 79.1 70 - 130 Propane ND 250.0 654 1000 65.4 70 - 130 Tetrahydrofuran ND 50.0 905 1000 90.5 70 - 130 Toluene ND 50.0 923 1000 92.3 70 - 130	Ethylene Oxide	ND	50.0	857	1000	85.7	70 - 130	
Isopropanol (2-Propanol)         ND         50.0         934         1000         93.4         70 - 130           Isopropyl Acetate         ND         250.0         918         1000         91.8         70 - 130           Methanol         ND         250.0         861         1000         86.1         70 - 130           Dichloromethane         ND         50.0         883         1000         88.3         70 - 130           Pentanes         ND         250.0         2370         3000         79.1         70 - 130           Propane         ND         250.0         654         1000         65.4         70 - 130           Tetrahydrofuran         ND         50.0         905         1000         90.5         70 - 130           Toluene         ND         50.0         923         1000         92.3         70 - 130	Heptane	ND	250.0	844	1000	84.4	70 - 130	
Isopropyl Acetate       ND       250.0       918       1000       91.8       70 - 130         Methanol       ND       250.0       861       1000       86.1       70 - 130         Dichloromethane       ND       50.0       883       1000       88.3       70 - 130         Pentanes       ND       250.0       2370       3000       79.1       70 - 130         Propane       ND       250.0       654       1000       65.4       70 - 130         Tetrahydrofuran       ND       50.0       905       1000       90.5       70 - 130         Toluene       ND       50.0       923       1000       92.3       70 - 130	Hexanes	ND	50.0	4160	5000	83.2	70 - 130	
Methanol     ND     250.0     861     1000     86.1     70 - 130       Dichloromethane     ND     50.0     883     1000     88.3     70 - 130       Pentanes     ND     250.0     2370     3000     79.1     70 - 130       Propane     ND     250.0     654     1000     65.4     70 - 130       Tetrahydrofuran     ND     50.0     905     1000     90.5     70 - 130       Toluene     ND     50.0     923     1000     92.3     70 - 130	Isopropanol (2-Propanol)	ND	50.0	934	1000	93.4	70 - 130	
Dichloromethane         ND         50.0         883         1000         88.3         70 - 130           Pentanes         ND         250.0         2370         3000         79.1         70 - 130           Propane         ND         250.0         654         1000         65.4         70 - 130           Tetrahydrofuran         ND         50.0         905         1000         90.5         70 - 130           Toluene         ND         50.0         923         1000         92.3         70 - 130	Isopropyl Acetate	ND	250.0	918	1000	91.8	70 - 130	
Pentanes       ND       250.0       2370       3000       79.1       70 - 130         Propane       ND       250.0       654       1000       65.4       70 - 130         Tetrahydrofuran       ND       50.0       905       1000       90.5       70 - 130         Toluene       ND       50.0       923       1000       92.3       70 - 130	Methanol	ND	250.0	861	1000	86.1	70 - 130	
Propane         ND         250.0         654         1000         65.4         70 - 130           Tetrahydrofuran         ND         50.0         905         1000         90.5         70 - 130           Toluene         ND         50.0         923         1000         92.3         70 - 130	Dichloromethane	ND	50.0	883	1000	88.3	70 - 130	
Tetrahydrofuran ND 50.0 905 1000 90.5 70 - 130 Toluene ND 50.0 923 1000 92.3 70 - 130	Pentanes	ND	250.0	2370	3000	79.1	70 - 130	
Toluene ND 50.0 923 1000 92.3 70 - 130	Propane	ND	250.0	654	1000	65.4	70 - 130	
	Tetrahydrofuran	ND	50.0	905	1000	90.5	70 - 130	
Xylenes ND 50.0 3860 4000 96.5 70 - 130	Toluene	ND	50.0	923	1000	92.3	70 - 130	
	Xylenes	ND	50.0	3860	4000	96.5	70 - 130	



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 1/6/2020 Analysis Date: 1/7/2020 Report Date: 1/9/2020

Metrc Batch ID: 1A4010300016315000020848 Metrc Sample ID: 1A4010300016315000020884 Harvest/Process Date: 1/3/2020 Report ID:

LS-200109-7

### **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 (ED
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