

Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 3/16/2020 Analysis Date: 3/17/2020 Report Date: 3/23/2020

Metrc Batch ID: 1A4010300016315000023467 Metrc Sample ID: 1A4010300016315000023472 Harvest/Process Date: 3/14/2020 Report ID: LS-200323-10 Sample Plan ID:SP-200316-4-A Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Potency

Potency Analysis Date: 3/17/2020 Potency Batch ID: CAN_031720A Potency Method: JAOAC 2015.1

77.8%

Total THC

0.217%

Total CBD

Samples: DDW-NFT-MBB, PPZ-SFR-CWT



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	
Д9ТНС	Delta-9 Tetrahydrocannabinol	0.16	0.0775	77.8	77.8	77.8	
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	49.0	0.164	0.270	0.217	•
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	35.3	0.475	0.678	0.576	•
CBG	Cannabigerol*	0.16	9.95	0.876	0.967	0.921	•
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	7.95	0.774	0.838	0.806	•
CBCA	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
CBN	Cannabinol	0.16	31.6	0.247	0.340	0.293	•
Total THC	Δ9THC + (THCA × 0.877)		0.0775	77.8	77.8	77.8	
Total CBD	CBD + (CBDA × 0.877)		49.0	0.164	0.270	0.217	•
Total			0.115	80.3	80.9	80.6	

Compliance

Pesticides	Within limits	Analysis Date: 3/17/2020	Pass 🛇
Solvents	Within limits	Analysis Date: 3/17/2020	Pass 🕢
Potency	Within limits	Analysis Date: 3/17/2020	Pass 🕢

Bryce Kidd, Ph.D. Lab Director

Aaron Troyer
Chief Science Officer





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Terpene Analysis Date: 3/20/2020

Terpene Batch ID: TRP 032020A

Total

Harvest/Process Date: 3/14/2020 Report ID: LS-200323-10 Sample Plan ID:SP-200316-4-A Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Method: JAOAC 2015.1

Unit: %



Analyte	Avg.	Notes
β-Caryophyllene	2.80%	
Humulene	0.862%	
Linalool	0.182%	
Limonene	0.172%	
α-Bisabolol	0.165%	
α-Terpineol	0.130%	
β-Myrcene	0.126%	
Fenchol	0.109%	
Selinadiene	0.0455%	
β-Pinene	0.0196%	
Sabinene	0.0180%	
Terpinolene	0.0138%	
Borneol	0.0136%	
β-Ocimene	0.0120%	
α-Pinene	0.0114%	
Eucalyptol	0.00326%	
Camphene	0.00308%	
Fenchone	0.00295%	
α-Terpinene	0.00276%	
Geraniol	0.00269%	
γ-Terpinene	0.00265%	
Δ3-Carene	0.00188%	
Nerol	0.00121%	
Azulene	ND	
Camphore	ND	
Caryophyllene Oxide	ND	
Cedrol	ND	
Cymene	ND	
Geranyl Acetate	ND	
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Analyte	Avg.	Notes	
Guaiol	ND		
Isoborneol	ND		
Isopulegol	ND		
Pulegone	ND		
Sabinene Hydrate	ND		
Valencene	ND		
cis-Nerolidol	ND		
trans-Nerolidol	ND		
α-Cedrene	ND		
α-Ocimene	ND		
α-Phellandrene	ND		
β-Farnesene 1	ND		
β-Farnesene 2	ND		
y-Terpineol	ND		

4.70%



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Pesticides Analysis Date: 3/17/2020 Pesticides Batch ID: PST_031720A Method: EN 15662 Unit: μg/g (ppm) Pass 🕢

Analyte	PPZ-SFR-CWT	DDW-NFT-MBB	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
Malathion	ND	ND	0.2	0.1		P

Analyte	PPZ-SFR-CWT	DDW-NFT-MBB	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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Pesticides Quality Control Data

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	1.10	1.00	110	50 - 150	
Acephate	ND	0.1	1.06	1.00	106	50 - 150	
Acequinocyl	ND	1.5	1.64	1.00	164	50 - 150	ME
Acetamiprid	ND	0.1	1.08	1.00	108	50 - 150	
Aldicarb	ND	0.1	0.923	1.00	92.3	50 - 150	
Azoxystrobin	ND	0.1	0.987	1.00	98.7	50 - 150	
Bifenazate	ND	0.1	ND	1.00	0.00	50 - 150	ND
Bifenthrin	ND	0.1	1.11	1.00	111	50 - 150	
Boscalid	ND	0.1	1.01	1.00	101	50 - 150	
Carbaryl	ND	0.1	0.995	1.00	99.5	50 - 150	
Carbofuran	ND	0.1	1.09	1.00	109	50 - 150	
Chlorantraniliprole	ND	0.1	1.01	1.00	101	50 - 150	
Chlorfenapyr	ND	0.1	1.03	1.00	103	50 - 150	
Chlorpyrifos	ND	0.1	0.961	1.00	96.1	50 - 150	
Clofentezine	ND	0.1	1.10	1.00	110	50 - 150	
Cyfluthrin	ND	0.5	1.03	1.00	103	50 - 150	
Cypermethrin	ND	0.1	1.11	1.00	111	50 - 150	
Daminozide	ND	0.5	1.87	1.00	187	10 - 150	НВ
Diazinon	ND	0.1	0.981	1.00	98.1	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.931	1.00	93.1	50 - 150	
Dimethoate	ND	0.1	1.01	1.00	101	50 - 150	
Ethoprophos	ND	0.1	0.928	1.00	92.8	50 - 150	
Etofenprox	ND	0.1	1.07	1.00	107	50 - 150	
Etoxazole	ND	0.1	2.48	1.00	248	50 - 150	НВ
Fenoxycarb	ND	0.1	1.10	1.00	110	50 - 150	
Fenpyroximate	ND	0.1	1.07	1.00	107	50 - 150	
Fipronil	ND	0.1	1.06	1.00	106	50 - 150	
Flonicamid	ND	0.1	1.13	1.00	113	50 - 150	
Fludioxonil	ND	0.1	0.990	1.00	99.0	50 - 150	
Hexythiazox	ND	0.1	1.27	1.00	127	50 - 150	
Imazalil	ND	0.1	1.01	1.00	101	50 - 150	
Imidacloprid	ND	0.1	1.00	1.00	100	50 - 150	
Kresoxim-methyl	ND	0.1	0.957	1.00	95.7	50 - 150	
Malathion	ND	0.1	1.03	1.00	103	50 - 150	

Pesticides QC Analysis Date: 3/17/2020 Pesticides QC Batch ID: PST 031720A Method: EN 15662 Unit: μg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Metalaxyl	ND	0.1	0.949	1.00	94.9	50 - 150	
Methiocarb	ND	0.1	0.986	1.00	98.6	50 - 150	
Methomyl	ND	0.1	0.986	1.00	98.6	50 - 150	
Methyl Parathion	ND	0.2	0.443	1.00	44.3	30 - 150	
MGK-264	ND	0.2	0.693	0.600	115	50 - 150	
Myclobutanil	ND	0.1	1.05	1.00	105	50 - 150	
Naled	ND	0.2	0.870	1.00	87.0	50 - 150	
0xamy1	ND	0.1	0.973	1.00	97.3	50 - 150	
Paclobutrazol	ND	0.1	1.03	1.00	103	50 - 150	
Permethrins	ND	0.1	1.07	1.00	107	50 - 150	
Phosmet	ND	0.1	0.944	1.00	94.4	50 - 150	
Piperonyl Butoxide	ND	0.1	1.01	1.00	101	50 - 150	
Prallethrin	ND	0.1	1.03	1.00	103	50 - 150	
Propiconazole	ND	0.1	1.04	1.00	104	50 - 150	
Propoxur	ND	0.1	0.957	1.00	95.7	50 - 150	
Pyrethrins	ND	0.5	0.501	1.00	50.1	50 - 150	
Pyridaben	ND	0.1	1.05	1.00	105	50 - 150	
Spinosad	ND	0.1	0.795	1.00	79.5	50 - 150	
Spiromesifen	ND	0.1	0.961	1.00	96.1	50 - 150	
Spirotetramat	ND	0.1	0.952	1.00	95.2	50 - 150	
Spiroxamine	ND	0.1	0.637	1.00	63.7	50 - 150	
Tebuconazole	ND	0.1	1.07	1.00	107	50 - 150	
Thiacloprid	ND	0.1	0.995	1.00	99.5	50 - 150	
Thiamethoxam	ND	0.1	1.03	1.00	103	50 - 150	
Trifloxystrobin	ND	0.1	1.08	1.00	108	50 - 150	



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Sample Type: Extracts Sample Date: 3/16/2020 Analysis Date: 3/17/2020 Report Date: 3/23/2020

1A4010300016315000023467 Metrc Sample ID: 1A4010300016315000023472 Harvest/Process Date: 3/14/2020 Report ID: 1 S-200323-10 Sample Plan ID:SP-200316-4-A Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Solvents Analysis Date: 3/17/2020 Solvents Batch ID: RES 031720A

Method: EPA 5021A Unit: µg/g (ppm)

Pass 🕢

Analyte	PPZ-SFR-CWT	DDW-NFT-MBB	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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Solvents QC Analysis Date: 3/17/2020 Solvents QC Batch ID: RES 031720A Method: EPA 5021A Unit: μg/g (ppm)

Analyte Blank LOQ LCS	LCS Spike LCS Rec (%) Limits (%) Notes
1,4-Dioxane ND 50.0 876	1000 87.6	70 - 130
2-Butanol ND 250.0 901	1000 90.1	70 - 130
2-Ethoxyethanol ND 50.0 852	1000 85.2	70 - 130
Acetone ND 250.0 848	1000 84.8	70 - 130
Acetonitrile ND 50.0 885	1000 88.5	70 - 130
Benzene ND 2.0 18.3	20.0 91.7	70 - 130
Butanes ND 250.0 1770	2000 88.3	70 - 130
Cumene ND 50.0 854	1000 85.4	70 - 130
Cyclohexane ND 50.0 852	1000 85.2	70 - 130
Ethyl Acetate ND 250.0 880	1000 88.0	70 - 130
Ethyl Ether ND 250.0 847	1000 84.7	70 - 130
Ethylene Glycol ND 250.0 908	1000 90.8	70 - 130
Ethylene Oxide ND 50.0 849	1000 84.9	70 - 130
Heptane ND 250.0 858	1000 85.8	70 - 130
Hexanes ND 50.0 4340	5000 86.8	70 - 130
Isopropanol (2-Propanol) <loq 50.0="" 906<="" th=""><th>1000 90.6</th><th>70 - 130</th></loq>	1000 90.6	70 - 130
Isopropyl Acetate ND 250.0 893	1000 89.3	70 - 130
Methanol ND 250.0 818	1000 81.8	70 - 130
Dichloromethane ND 50.0 861	1000 86.1	70 - 130
Pentanes ND 250.0 2630	3000 87.6	70 - 130
Propane ND 250.0 882	1000 88.2	70 - 130
Tetrahydrofuran ND 50.0 885	1000 88.5	70 - 130
Toluene ND 50.0 873	1000 87.3	70 - 130
Xylenes ND 50.0 3460	4000 86.5	70 - 130



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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 exceeds the detection limit
LB	Control acceptance criteria are exceeded low and the associated sample is below the regulatory limit
ME	Marginal Exceedance
LR	Low Recovery Analyte
LOQ	Limit of Quantitation