

Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 4/6/2020 Analysis Date: 4/7/2020 Report Date: 4/10/2020 Metrc Batch ID: 1A4010300016315000023945 Metrc Sample ID: 1A4010300016315000023980 Harvest/Process Date: 4/4/2020 Report ID: LS-200410-19 Sample Plan ID:SP0200406-2-B Sample Procedure: 160721\_LAB-SOP\_SampleCollection-v007

#### **Potency**

Potency Analysis Date: 4/7/2020 Potency Batch ID: CAN\_040720A Potency Method: JAOAC 2015.1

**77.8%** 

Total THC

<LOQ

Total CBD

Samples: MJB-RRP-ZSP, BZM-ZTJ-BFD



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	U
<b>Д9ТНС</b>	Delta-9 Tetrahydrocannabinol	0.16	0.235	77.3	77.4	77.3	
THCA	Tetrahydrocannabinolic acid	0.16	22.7	0.462	0.580	0.521	•
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	ND	ND	
Δ8ΤΗC	Delta-8 Tetrahydrocannabinol*	0.16	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.16	14.3	0.468	0.540	0.504	•
CBG	Cannabigerol*	0.16	2.28	1.49	1.53	1.51	•
CBGA	Cannabigerolic acid*	0.16	19.8	0.419	0.511	0.465	•
CBC	Cannabichromene*	0.16	2.10	1.22	1.24	1.23	•
CBCA	Cannabichromenic acid*	0.16	69.7	ND	0.331	0.166	•
CBN	Cannabinol	0.16	31.8	0.405	0.557	0.481	•
Total THC	Δ9THC + (THCA × 0.877)		0.0998	77.7	77.9	77.8	
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			0.526	81.7	82.7	82.2	

### **Compliance**

Pesticides	Within limits	Analysis Date: 4/7/2020	Pass 🕢
Solvents	Within limits	Analysis Date: 4/7/2020	Pass 🕢
Potency	Within limits	Analysis Date: 4/7/2020	Pass 🕢

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





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Terpenes\*
Sample Data

Terpene Analysis Date: 4/7/2020	
Terpene Batch ID: TRP_040720A	

Method: JAOAC 2015.1

Unit: %

Analyte	Avg.	Notes
Selinadiene	1.21%	
β-Farnesene 2	0.376%	
β-Caryophyllene	0.266%	
Humulene	0.0865%	
α-Bisabolol	0.0185%	
α-Terpineol	0.00981%	
Linalool	0.00393%	
Fenchol	0.000929%	
Borneol	0.000829%	
Azulene	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	
Limonene	ND	
Nerol	ND	
Pulegone	ND	
Sabinene	ND	
Sabinene Hydrate	ND	
Terpinolene	ND	
Valencene	ND	

Analyte	Avg.	Notes	
cis-Nerolidol	ND		
trans-Nerolidol	ND		
Δ3-Carene	ND		
α-Cedrene	ND		
α-Ocimene	ND		
α-Phellandrene	ND		
α-Pinene	ND		
α-Terpinene	ND		
β-Farnesene 1	ND		
β-Myrcene	ND		
β-Ocimene	ND		
β-Pinene	ND		
γ-Terpinene	ND		
γ-Terpineol	ND		
Total	1.97%		





(503) 493-2535

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

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Metrc Batch ID: 1A4010300016315000023945 Metrc Sample ID: 1A4010300016315000023980 Harvest/Process Date: 4/4/2020 Report ID: LS-200410-19 Sample Plan ID:SP0200406-2-B Sample Procedure: 160721\_LAB-SOP\_SampleCollection-v007



Pesticides Analysis Date: 4/7/2020 Pesticides Batch ID: PST 040720B

Method: EN 15662 Unit: µg/g (ppm)

Pass 🕢

Analyte	MJB-RRP-ZSP	BZM-ZTJ-BFD	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	MJB-RRP-ZSP	BZM-ZTJ-BFD	Limits	LOQ	Notes	Status
Metalaxyl	ND	ND	0.2	0.1		Pass
Methiocarb	ND	ND	0.2	0.1		Pass
Methomyl	ND	ND	0.4	0.1		Pass
Methyl Parathion	ND	ND	0.2	0.2		Pass
MGK-264	ND	ND	0.2	0.2		Pass
Myclobutanil	ND	ND	0.2	0.1		Pass
Naled	ND	ND	0.5	0.2		Pass
0xamy1	ND	ND	1.0	0.1		Pass
Paclobutrazol	ND	ND	0.4	0.1		Pass
Permethrins	ND	ND	0.2	0.1		Pass
Phosmet	ND	ND	0.2	0.1		Pass
Piperonyl Butoxide	ND	ND	2.0	0.1		Pass
Prallethrin	ND	ND	0.2	0.1		Pass
Propiconazole	ND	ND	0.4	0.1		Pass
Propoxur	ND	ND	0.2	0.1		Pass
Pyrethrins	ND	ND	1.0	0.5		Pass
Pyridaben	ND	ND	0.2	0.1		Pass
Spinosad	ND	ND	0.2	0.1		Pass
Spiromesifen	ND	ND	0.2	0.1		Pass
Spirotetramat	ND	ND	0.2	0.1		Pass
Spiroxamine	ND	ND	0.4	0.1		Pass
Tebuconazole	ND	ND	0.4	0.1		Pass
Thiacloprid	ND	ND	0.2	0.1		Pass
Thiamethoxam	ND	ND	0.2	0.1		Pass
Trifloxystrobin	ND	ND	0.2	0.1		Pass



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Thiamethoxam

Trifloxystrobin

Harvest/Process Date: 4/4/2020 Report ID: LS-200410-19 Sample Plan ID:SP0200406-2-B Sample Procedure: 160721 LAB-SOP\_SampleCollection-v007

96.8

50 - 150

50 - 150

Method: EN 15662

Unit: µg/g (ppm)



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

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	0.953	1.00	95.3	50 - 150	
Acephate	ND	0.1	0.922	1.00	92.2	50 - 150	
Acequinocyl	ND	1.5	1.08	1.00	108	50 - 150	
Acetamiprid	ND	0.1	0.907	1.00	90.7	50 - 150	
Aldicarb	ND	0.1	0.956	1.00	95.6	50 - 150	
Azoxystrobin	ND	0.1	0.955	1.00	95.5	50 - 150	
Bifenazate	ND	0.1	2.01	1.00	201	50 - 150	HB
Bifenthrin	ND	0.1	0.893	1.00	89.3	50 - 150	
Boscalid	ND	0.1	0.950	1.00	95.0	50 - 150	
Carbaryl	ND	0.1	0.949	1.00	94.9	50 - 150	
Carbofuran	ND	0.1	0.993	1.00	99.3	50 - 150	
${\tt Chlorantraniliprole}$	ND	0.1	0.975	1.00	97.5	50 - 150	
Chlorfenapyr	ND	0.1	0.920	1.00	92.0	50 - 150	
Chlorpyrifos	ND	0.1	0.941	1.00	94.1	50 - 150	
Clofentezine	ND	0.1	0.816	1.00	81.6	50 - 150	
Cyfluthrin	ND	0.5	0.861	1.00	86.1	50 - 150	
Cypermethrin	ND	0.1	0.960	1.00	96.0	50 - 150	
Daminozide	ND	0.5	0.228	1.00	22.8	10 - 150	
Diazinon	ND	0.1	0.923	1.00	92.3	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.821	1.00	82.1	50 - 150	
Dimethoate	ND	0.1	0.905	1.00	90.5	50 - 150	
Ethoprophos	ND	0.1	0.913	1.00	91.3	50 - 150	
Etofenprox	ND	0.1	0.954	1.00	95.4	50 - 150	
Etoxazole	ND	0.1	2.43	1.00	243	50 - 150	НВ
Fenoxycarb	ND	0.1	0.990	1.00	99.0	50 - 150	
Fenpyroximate	ND	0.1	0.924	1.00	92.4	50 - 150	
Fipronil	ND	0.1	0.929	1.00	92.9	50 - 150	
Flonicamid	ND	0.1	0.937	1.00	93.7	50 - 150	
Fludioxonil	ND	0.1	0.882	1.00	88.2	50 - 150	
Hexythiazox	ND	0.1	1.05	1.00	105	50 - 150	
Imazalil	ND	0.1	0.950	1.00	95.0	50 - 150	
Imidacloprid	ND	0.1	0.867	1.00	86.7	50 - 150	
Kresoxim-methyl	ND	0.1	0.931	1.00	93.1	50 - 150	
Malathion	ND	0.1	0.955	1.00	95.5	50 - 150	

Pesticides QC Batch ID: PST 040720B Analyte Blank LOQ

Pesticides QC Analysis Date: 4/7/2020

LCS LCS Spike LCS Rec (%) Limits (%) Metalaxyl 0.896 50 - 150 Methiocarb ND 9.1 9.955 1 99 95.5 50 - 150 Methomyl ND 0.948 94.8 50 - 150 Methyl Parathion ND 0.2 0.502 59.2 30 - 150 1 99 MGK-264 94.5 Myclobutanil ND 0.1 0.945 50 - 150 1.00 0.1 0xamvl ND 0.943 1.00 94.3 50 - 150 Paclobutrazol 0.977 50 - 150 Permethrins ND 9.1 0.926 92.6 50 - 150 1 99 92.5 0.925 Piperonyl Butoxide ND 0.1 93.4 50 - 150 0.934 1.00 Prallethrin 0.950 1.00 Propiconazole 50 - 150 ND 0.1 0.985 1.00 98.5 Propoxur 0.912 1.00 50 - 150 Pyrethrins ND 9.5 9 448 44.8 50 - 150 1 99 Pyridaben 0.955 Spinosad ND 0.1 1.13 1 99 113 50 - 150 Spiromesifen ND 0.1 0.863 1.00 86.3 Spirotetramat ND 0.1 0.966 1.00 96.6 50 - 150 Spiroxamine 0.979 1.00 50 - 150 Tebuconazole ND 1.01 1.00 101 50 - 150 Thiacloprid ND 0.1 0.897 1.00 89.7 50 - 150

> 0.1 0.968

0.1 0.948



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Solvents Analysis Date: 4/7/2020 Solvents Batch ID: RES 040720A Method: EPA 5021A Unit: μg/g (ppm) Pass 🥥

Analyte	MJB-RRP-ZSP	BZM-ZTJ-BFD	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: 4/7/2020 Solvents QC Batch ID: RES 040720A

Method: EPA 5021A Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
1,4-Dioxane	ND	50.0	891	1000	89.1	70 - 130	
2-Butanol	ND	250.0	925	1000	92.5	70 - 130	
2-Ethoxyethanol	ND	50.0	841	1000	84.1	70 - 130	
Acetone	ND	250.0	836	1000	83.6	70 - 130	
Acetonitrile	ND	50.0	893	1000	89.3	70 - 130	
Benzene	ND	2.0	16.7	20.0	83.5	70 - 130	
Butanes	ND	250.0	1880	2000	94.0	70 - 130	
Cumene	ND	50.0	866	1000	86.6	70 - 130	
Cyclohexane	ND	50.0	855	1000	85.5	70 - 130	
Ethyl Acetate	ND	250.0	885	1000	88.5	70 - 130	
Ethyl Ether	ND	250.0	842	1000	84.2	70 - 130	
Ethylene Glycol	ND	250.0	901	1000	90.1	70 - 130	
Ethylene Oxide	ND	50.0	882	1000	88.2	70 - 130	
Heptane	ND	250.0	892	1000	89.2	70 - 130	
Hexanes	ND	50.0	4450	5000	89.0	70 - 130	
Isopropanol (2-Propanol)	ND	50.0	936	1000	93.6	70 - 130	
Isopropyl Acetate	ND	250.0	934	1000	93.4	70 - 130	
Methanol	ND	250.0	767	1000	76.7	70 - 130	
Dichloromethane	ND	50.0	878	1000	87.8	70 - 130	
Pentanes	ND	250.0	2750	3000	91.5	70 - 130	
Propane	ND	250.0	907	1000	90.7	70 - 130	
Tetrahydrofuran	ND	50.0	914	1000	91.4	70 - 130	
Toluene	ND	50.0	873	1000	87.3	70 - 130	
Xylenes	ND	50.0	3550	4000	88.8	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
ЕМС	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