

Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 9/18/2019 Analysis Date: 9/19/2019 Report Date: 9/25/2019

Metrc Batch ID: 1A4010300016315000015421 Metrc Sample ID: 1A4010300016315000015497 Harvest/Process Date: 9/17/2019 Report ID:

LS-190925-7

Potency

Potency Analysis Date: 9/19/2019 Potency Batch ID: CAN_091919D Potency Method: JAOAC 2015.1

87.8%

Total THC

0.0906%

Total CBD

Samples: WCX-ZRH-HRZ, TCT-JFH-WNJ



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: 9
Д9ТНС	Delta-9 Tetrahydrocannabinol	0.16	0.489	87.6	88.0	87.8	
THCA	Tetrahydrocannabinolic acid	0.16	0.00	ND	ND	ND	
CBD	Cannabidiol	0.16	12.4	ND	0.181	0.0906	•
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	11.7	0.576	0.647	0.611	•
CBG	Cannabigerol*	0.16	3.49	2.01	2.08	2.05	•
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	2.83	1.81	1.86	1.83	•
CBCA	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
CBN	Cannabinol	0.16	57.9	<l0q< td=""><td>0.290</td><td>0.290</td><td>•</td></l0q<>	0.290	0.290	•
Total THC	Δ 9THC + (THCA × 0.877)		0.489	87.6	88.0	87.8	
Total CBD	CBD + (CBDA × 0.877)		12.4	ND	0.181	0.0906	•
Total			0.0530	92.0	93.1	92.6	

Compliance

Pesticides	Within limits	Analysis Date: 9/19/2019	Pass 🕢
Solvents	Within limits	Analysis Date: 9/19/2019	Pass 🕢
Potency	Within limits	Analysis Date: 9/19/2019	Pass 🕢

Bryce Kidd, Ph.D. Lab Director

Aaron Troyer
Chief Science Officer





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Unit: %

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Method: JAOAC 2015.1

Terpenes* Sample Data

Analyte	Avg.	Notes
β-Caryophyllene	0.662%	
Guaiol	0.541%	
α-Terpineol	0.279%	
Humulene	0.233%	
α-Bisabolol	0.205%	
Azulene	ND	
Borneol	ND	
Camphene	ND	
Camphore	ND	
Caryophyllene Oxide	ND	
Cedrol	ND	
Cymene	ND	
Eucalyptol	ND	
Fenchol	ND	
Fenchone	ND	
Geraniol	ND	
Geranyl Acetate	ND	
Isoborneol	ND	
Isopulegol	ND	
Limonene	ND	
Linalool	ND	
Nerol	ND	
Pulegone	ND	
Sabinene	ND	
Sabinene Hydrate	ND	
Selinadiene	ND	
Terpinolene	ND	
Valencene	ND	
cis-Nerolidol	ND	

Terpene Batch ID: TRP 091919A Ana

Terpene Analysis Date: 9/19/2019

Analyte	Avg.	Notes
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-Farnesene 2	ND	
β-Myrcene	ND	
β-Ocimene	ND	
β-Pinene	ND	
γ-Terpinene	ND	
γ-Terpineol	ND	
Total	1.92%	



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Pesticides Analysis Date: 9/19/2019 Pesticides Batch ID: PST_091919A Method: EN 15662 Unit: μg/g (ppm) Pass 🕢

Analyte	TCT-JFH-WNJ	WCX-ZRH-HRZ	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	TCT-JFH-WNJ	WCX-ZRH-HRZ	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

LCS Spike LCS Rec (%) Limits (%) Notes Analyte Blank LOQ LCS Abamectin 1.03 1.00 103 50 - 150 Acenhate ND 0.1 0.700 1 99 79.9 50 - 150 Acequinocyl ND 1.5 1.44 1.00 144 50 - 150 Acetamiprid ND 0.1 0.945 1 99 94.5 50 - 150 Aldicarb 134 50 - 150 1.34 1.00 Azoxystrobin ND 0.1 1.29 1.00 129 50 - 150 Bifenazate ND 110 50 - 150 Bifenthrin 0.1 ND 1 10 1.00 110 50 - 150 Boscalid 50 - 150 1.20 1.00 Carbarvl ND 0.1 1.45 1 99 145 50 - 150 105 1.00 Chlorantraniliprole ND 0.1 0.955 95.5 50 - 150 1.00 93.7 Chlorfenapyr 1.00 50 - 150 Chlorpyrifos 0.1 1.04 50 - 150 ND 1.00 104 Clofentezine ND 1.00 50 - 150 Cyfluthrin ND 0.5 1.49 1 99 149 50 - 150 Cypermethrin 1.00 50 - 150 Daminozide 10 - 150 LR ND 0.5 ND 1 99 5.55 ND 0.1 1.07 1.00 107 50 - 150 Dichlorvos (DDVP) ND 0.5 1.31 1.00 131 50 - 150 Dimethoate ND 0.1 0.989 1.00 98.9 50 - 150 Ethoprophos ND 0.1 1.30 1.00 130 50 - 150 Etofenprox ND 0.976 1.00 50 - 150 0.1 0.920 Etoxazole ND 1 99 92 A 50 - 150 Fenoxycarb 1.03 1.00 50 - 150 Fenpyroximate ND 0.1 1.59 1 99 159 50 - 150 ME Fipronil ND 0.1 1.05 1.00 105 50 - 150 Flonicamid ND 0.1 0.865 1.00 86.5 50 - 150 Fludioxonil ND 1.06 1.00 106 50 - 150 Hexythiazox ND 1.13 1.00 113 50 - 150 Imazalil ND 0.937 1.00 93.7 50 - 150 Imidacloprid ND 0.1 0.785 1.00 78.5 50 - 150 Kresoxim-methyl ND 0.1 1.02 1.00 102 50 - 150 Malathion ND 0.1 1.12 1.00 112 50 - 150

Pesticides QC Analysis Date: 9/19/2019 Pesticides QC Batch ID: PST_091919A Method: EN 15662 Unit: µg/g (ppm)

Amaluta	Dlank	100	1.00	1.00.000	LOC Dec (9/)	Limping (9/)	Natas
Analyte	Blank		LCS		LCS Rec (%)	. ,	Notes
Metalaxyl	ND	0.1	1.11	1.00	111	50 - 150	
Methiocarb	ND	0.1	1.39	1.00	139	50 - 150	
Methomyl	ND	0.1	1.95	1.00	195	50 - 150	HB
Methyl Parathion	ND	0.2	0.588	1.00	58.8	30 - 150	
MGK-264	ND	0.2	0.774	0.600	129	50 - 150	
Myclobutanil	ND	0.1	1.02	1.00	102	50 - 150	
Naled	ND	0.2	0.732	1.00	73.2	50 - 150	
Oxamyl	ND	0.1	0.969	1.00	96.9	50 - 150	
Paclobutrazol	ND	0.1	0.816	1.00	81.6	50 - 150	
Permethrins	ND	0.1	1.06	1.00	106	50 - 150	
Phosmet	ND	0.1	1.13	1.00	113	50 - 150	
Piperonyl Butoxide	ND	0.1	1.65	1.00	165	50 - 150	НВ
Prallethrin	ND	0.1	1.08	1.00	108	50 - 150	
Propiconazole	ND	0.1	0.938	1.00	93.8	50 - 150	
Propoxur	ND	0.1	1.28	1.00	128	50 - 150	
Pyrethrins	ND	0.5	1.21	1.00	121	50 - 150	
Pyridaben	ND	0.1	0.999	1.00	99.9	50 - 150	
Spinosad	ND	0.1	0.810	1.00	81.0	50 - 150	
Spiromesifen	ND	0.1	0.979	1.00	97.9	50 - 150	
Spirotetramat	ND	0.1	1.06	1.00	106	50 - 150	
Spiroxamine	ND	0.1	1.01	1.00	101	50 - 150	
Tebuconazole	ND	0.1	0.893	1.00	89.3	50 - 150	
Thiacloprid	ND	0.1	0.935	1.00	93.5	50 - 150	
Thiamethoxam	ND	0.1	0.823	1.00	82.3	50 - 150	
Trifloxystrobin	ND	0.1	1.04	1.00	104	50 - 150	
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LS-190925-7

Residual Solvents
Sample Data

Solvents Analysis Date: 9/19/2019 Solvents Batch ID: RES 091819B Method: EPA 5021A Unit: μg/g (ppm) Pass 🕢

Analyte	TCT-JFH-WNJ	WCX-ZRH-HRZ	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	<l0q< td=""><td><l0q< td=""><td>0.00</td><td>410.0</td><td>50.0</td><td></td><td>Pass</td></l0q<></td></l0q<>	<l0q< td=""><td>0.00</td><td>410.0</td><td>50.0</td><td></td><td>Pass</td></l0q<>	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)	<l0q< td=""><td><l0q< td=""><td>0.00</td><td>5000.0</td><td>50.0</td><td></td><td>Pass</td></l0q<></td></l0q<>	<l0q< td=""><td>0.00</td><td>5000.0</td><td>50.0</td><td></td><td>Pass</td></l0q<>	0.00	5000.0	50.0		Pass
Isopropyl Acetate	ND	ND	0.00	5000.0	250.0		Pass
Methanol	<l0q< td=""><td><l0q< td=""><td>0.00</td><td>3000.0</td><td>250.0</td><td></td><td>Pass</td></l0q<></td></l0q<>	<l0q< td=""><td>0.00</td><td>3000.0</td><td>250.0</td><td></td><td>Pass</td></l0q<>	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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(Residual Solvents
	Residual Solvents Quality Control Data

Solvents QC Analysis Date: 9/19/2019 Solvents QC Batch ID: RES 091819B Method: EPA 5021A Unit: μg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
1,4-Dioxane	ND	50.0	972	1000	97.2	70 - 130	
2-Butanol	ND	250.0	1010	1000	101	70 - 130	
2-Ethoxyethanol	ND	50.0	1010	1000	101	70 - 130	
Acetone	ND	250.0	905	1000	90.5	70 - 130	
Acetonitrile	<l0q< th=""><th>50.0</th><th>939</th><th>1000</th><th>93.9</th><th>70 - 130</th><th></th></l0q<>	50.0	939	1000	93.9	70 - 130	
Benzene	ND	2.0	15.0	20.0	75.2	70 - 130	
Butanes	ND	250.0	1870	2000	93.4	70 - 130	
Cumene	ND	50.0	1020	1000	102	70 - 130	
Cyclohexane	ND	50.0	922	1000	92.2	70 - 130	
Ethyl Acetate	ND	250.0	955	1000	95.5	70 - 130	
Ethyl Ether	ND	250.0	907	1000	90.7	70 - 130	
Ethylene Glycol	ND	250.0	978	1000	97.8	70 - 130	
Ethylene Oxide	ND	50.0	859	1000	85.9	70 - 130	
Heptane	ND	250.0	978	1000	97.8	70 - 130	
Hexanes	ND	50.0	4700	5000	93.9	70 - 130	
Isopropanol (2-Propanol)	<l0q< th=""><th>50.0</th><th>974</th><th>1000</th><th>97.4</th><th>70 - 130</th><th></th></l0q<>	50.0	974	1000	97.4	70 - 130	
Isopropyl Acetate	ND	250.0	1010	1000	101	70 - 130	
Methanol	ND	250.0	891	1000	89.1	70 - 130	
Dichloromethane	ND	50.0	954	1000	95.4	70 - 130	
Pentanes	ND	250.0	2790	3000	93.1	70 - 130	
Propane	ND	250.0	860	1000	86.0	70 - 130	
Tetrahydrofuran	ND	50.0	997	1000	99.7	70 - 130	
Toluene	ND	50.0	973	1000	97.3	70 - 130	
Xylenes	ND	50.0	4130	4000	103	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 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