

Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 12/30/2019 Analysis Date: 1/2/2020 Report Date: 1/7/2020

Metrc Batch ID: 1A4010300016315000020511 Metrc Sample ID: 1A4010300016315000020592 Harvest/Process Date: 12/29/2019 Report ID:

LS-200107-1

Potency

Potency Analysis Date: 1/3/2020 Potency Batch ID: CAN_010320A Potency Method: JAOAC 2015.1

78.2%

Total THC

0.283%

Total CBD

Samples: XTH-FGS-DJG, NNT-ZTP-FMJ



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: %
Д9ТНС	Delta-9 Tetrahydrocannabinol	0.16	0.402	78.1	78.4	78.2	
THCA	Tetrahydrocannabinolic acid	0.16	0.00	ND	ND	ND	
CBD	Cannabidiol	0.16	35.8	ND	0.230	0.115	•
CBDA	Cannabidiolic acid	0.16	18.1	<l0q< td=""><td>0.192</td><td>0.192</td><td>•</td></l0q<>	0.192	0.192	•
Δ8ΤΗC	Delta-8 Tetrahydrocannabinol*	0.16	0.00	ND	ND	ND	
THCV	Tetrahydrocannabivarin*	0.16	3.81	2.85	2.96	2.91	-
CBG	Cannabigerol*	0.16	1.76	1.96	1.99	1.97	•
CBGA	Cannabigerolic acid*	0.16	89.4	ND	0.419	0.209	•
CBC	Cannabichromene*	0.16	4.35	1.10	1.15	1.12	•
CBCA	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
CBN	Cannabinol	0.16	0.00	ND	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
Total THC	Δ9THC + (THCA × 0.877)		0.402	78.1	78.4	78.2	
Total CBD	CBD + (CBDA × 0.877)		30.9	<l0q< td=""><td>0.398</td><td>0.283</td><td>•</td></l0q<>	0.398	0.283	•
Total			0.797	84.0	85.3	84.7	

Compliance

Pesticides	Within limits	Analysis Date: 1/3/2020	Pass 🕢
Solvents	Within limits	Analysis Date: 1/3/2020	Pass 🕢
Potency	Within limits	Analysis Date: 1/3/2020	Pass 🕢

Bryce Kidd, Ph.D.
Lab Director

Aaron Troyer
Chief Science Officer



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

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1A4010300016315000020511 Metrc Sample ID: 1A4010300016315000020592 Harvest/Process Date: 12/29/2019

Report ID:

Unit: %

LS-200107-1

Method: JAOAC 2015.1

Terpenes* Sample Data

Analyte	Avg.	Notes
β-Farnesene 2	3.68%	
β-Ocimene	0.980%	
β-Caryophyllene	0.760%	
β-Myrcene	0.511%	
Limonene	0.344%	
Humulene	0.280%	
α-Terpinene	0.159%	
β-Pinene	0.123%	
α-Phellandrene	0.121%	
Sabinene	0.120%	
α-Bisabolol	0.105%	
Guaiol	0.102%	
γ-Terpinene	0.0935%	
Δ3-Carene	0.0695%	
α-Pinene	0.0661%	
Fenchol	0.0590%	
Cymene	0.0521%	
α-Ocimene	0.0458%	
Caryophyllene Oxide	0.0423%	
Eucalyptol	0.0271%	
Linalool	0.0257%	
Selinadiene	0.0133%	
Sabinene Hydrate	0.00977%	
Camphene	0.00831%	
Geraniol	0.00803%	
Fenchone	0.00676%	
Nerol	0.000824%	
Azulene	ND	
Borneol	ND	

Terpene Batch ID: TRP 1220A

Terpene Analysis Date: 1/2/2020

Analyte	Avg.	Notes
Camphore	ND	
Cedrol	ND	
Geranyl Acetate	ND	
Isoborneol	ND	
Isopulegol	ND	
Pulegone	ND	
Terpinolene	ND	
Valencene	ND	
cis-Nerolidol	ND	
trans-Nerolidol	ND	
α-Cedrene	ND	
α-Terpineol	ND	
β-Farnesene 1	ND	
γ-Terpineol	ND	
Total	7.81%	



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Pesticides Analysis Date: 1/3/2020 Pesticides Batch ID: PST 010320A

Method: EN 15662 Unit: µg/g (ppm)

Pass 🕢

Analyte	NNT-ZTP-FMJ	XTH-FGS-DJG	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	NNT-ZTP-FMJ	XTH-FGS-DJG	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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Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	0.886	1.00	88.6	50 - 150	
Acephate	ND	0.1	0.714	1.00	71.4	50 - 150	
Acequinocyl	ND	1.5	0.604	1.00	60.4	50 - 150	
Acetamiprid	ND	0.1	1.04	1.00	104	50 - 150	
Aldicarb	ND	0.1	0.817	1.00	81.7	50 - 150	
Azoxystrobin	ND	0.1	0.949	1.00	94.9	50 - 150	
Bifenazate	ND	0.1	0.213	1.00	21.3	50 - 150	LR
Bifenthrin	ND	0.1	0.573	1.00	57.3	50 - 150	
Boscalid	ND	0.1	0.790	1.00	79.0	50 - 150	
Carbaryl	ND	0.1	0.835	1.00	83.5	50 - 150	
Carbofuran	ND	0.1	1.04	1.00	104	50 - 150	
${\tt Chlorantraniliprole}$	ND	0.1	0.979	1.00	97.9	50 - 150	
Chlorfenapyr	ND	0.1	0.904	1.00	90.4	50 - 150	
Chlorpyrifos	ND	0.1	0.795	1.00	79.5	50 - 150	
Clofentezine	ND	0.1	0.686	1.00	68.6	50 - 150	
Cyfluthrin	ND	0.5	0.853	1.00	85.3	50 - 150	
Cypermethrin	ND	0.1	0.937	1.00	93.7	50 - 150	
Daminozide	ND	0.5	ND	1.00	0.996	10 - 150	LR
Diazinon	ND	0.1	0.842	1.00	84.2	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.918	1.00	91.8	50 - 150	
Dimethoate	ND	0.1	0.876	1.00	87.6	50 - 150	
Ethoprophos	ND	0.1	1.01	1.00	101	50 - 150	
Etofenprox	ND	0.1	0.755	1.00	75.5	50 - 150	
Etoxazole	ND	0.1	0.913	1.00	91.3	50 - 150	
Fenoxycarb	ND	0.1	1.01	1.00	101	50 - 150	
Fenpyroximate	ND	0.1	0.862	1.00	86.2	50 - 150	
Fipronil	ND	0.1	1.10	1.00	110	50 - 150	
Flonicamid	ND	0.1	0.946	1.00	94.6	50 - 150	
Fludioxonil	ND	0.1	0.880	1.00	88.0	50 - 150	
Hexythiazox	ND	0.1	0.886	1.00	88.6	50 - 150	
Imazalil	ND	0.1	0.903	1.00	90.3	50 - 150	
Imidacloprid	ND	0.1	0.729	1.00	72.9	50 - 150	
Kresoxim-methyl	ND	0.1	1.00	1.00	100	50 - 150	
Malathion	ND	0.1	0.954	1.00	95.4	50 - 150	

Pesticides QC Analysis Date: 1/3/2020 Pesticides QC Batch ID: PST 010320A Method: EN 15662 Unit: μg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Metalaxyl	ND	0.1	0.513	1.00	51.3	50 - 150	
Methiocarb	ND	0.1	0.858	1.00	85.8	50 - 150	
Methomyl	ND	0.1	0.878	1.00	87.8	50 - 150	
Methyl Parathion	ND	0.2	0.340	1.00	34.0	30 - 150	
MGK-264	ND	0.2	0.478	0.600	79.7	50 - 150	
Myclobutanil	ND	0.1	0.847	1.00	84.7	50 - 150	
Naled	ND	0.2	0.891	1.00	89.1	50 - 150	
0xamy1	ND	0.1	0.934	1.00	93.4	50 - 150	
Paclobutrazol	ND	0.1	0.507	1.00	50.7	50 - 150	
Permethrins	ND	0.1	0.651	1.00	65.1	50 - 150	
Phosmet	ND	0.1	0.749	1.00	74.9	50 - 150	
Piperonyl Butoxide	ND	0.1	0.791	1.00	79.1	50 - 150	
Prallethrin	ND	0.1	0.856	1.00	85.6	50 - 150	
Propiconazole	ND	0.1	0.878	1.00	87.8	50 - 150	
Propoxur	ND	0.1	0.838	1.00	83.8	50 - 150	
Pyrethrins	ND	0.5	0.900	1.00	90.0	50 - 150	
Pyridaben	ND	0.1	0.850	1.00	85.0	50 - 150	
Spinosad	ND	0.1	0.887	1.00	88.7	50 - 150	
Spiromesifen	ND	0.1	0.967	1.00	96.7	50 - 150	
Spirotetramat	ND	0.1	0.951	1.00	95.1	50 - 150	
Spiroxamine	ND	0.1	0.263	1.00	26.3	50 - 150	LR
Tebuconazole	ND	0.1	0.966	1.00	96.6	50 - 150	
Thiacloprid	ND	0.1	0.807	1.00	80.7	50 - 150	
Thiamethoxam	ND	0.1	0.880	1.00	88.0	50 - 150	
Trifloxystrobin	ND	0.1	1.04	1.00	104	50 - 150	



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Metrc Batch ID: 1A4010300016315000020511 Metrc Sample ID: 1A4010300016315000020592 Harvest/Process Date: 12/29/2019

Report ID:

LS-200107-1

	Residual Solvents
9	Residual Solvents Sample Data

Solvents Analysis Date: 1/3/2020 Solvents Batch ID: RES 010220A Method: EPA 5021A Unit: μg/g (ppm) Pass 🕢

Analyte	NNT-ZTP-FMJ	XTH-FGS-DJG	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	<l0q< td=""><td><l0q< td=""><td>0.00</td><td>5000.0</td><td>250.0</td><td></td><td>Pass</td></l0q<></td></l0q<>	<l0q< td=""><td>0.00</td><td>5000.0</td><td>250.0</td><td></td><td>Pass</td></l0q<>	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)	<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>ND</td><td>0.00</td><td>3000.0</td><td>250.0</td><td></td><td>Pass</td></l0q<>	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



OLCC #010-1003340D344

349 - Durban x Chocolope RCO 12.29.19

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

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1A4010300016315000020511 Metrc Sample ID: 1A4010300016315000020592 Harvest/Process Date: 12/29/2019

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Residual Solvents Quality Control Data Solvents QC Analysis Date: 1/3/2020 Solvents QC Batch ID: RES 010220A

Method: EPA 5021A Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
1,4-Dioxane	ND	50.0	1010	1000	101	70 - 130	
2-Butanol	ND	250.0	948	1000	94.8	70 - 130	
2-Ethoxyethanol	ND	50.0	917	1000	91.7	70 - 130	
Acetone	ND	250.0	942	1000	94.2	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	1580	2000	78.8	70 - 130	
Cumene	ND	50.0	1040	1000	104	70 - 130	
Cyclohexane	ND	50.0	948	1000	94.8	70 - 130	
Ethyl Acetate	ND	250.0	923	1000	92.3	70 - 130	
Ethyl Ether	ND	250.0	896	1000	89.6	70 - 130	
Ethylene Glycol	ND	250.0	836	1000	83.6	70 - 130	
Ethylene Oxide	ND	50.0	859	1000	85.9	70 - 130	
Heptane	ND	250.0	906	1000	90.6	70 - 130	
Hexanes	ND	50.0	4450	5000	89.1	70 - 130	
Isopropanol (2-Propanol)	ND	50.0	949	1000	94.9	70 - 130	
Isopropyl Acetate	ND	250.0	947	1000	94.7	70 - 130	
Methanol	ND	250.0	914	1000	91.4	70 - 130	
Dichloromethane	ND	50.0	933	1000	93.3	70 - 130	
Pentanes	ND	250.0	2530	3000	84.5	70 - 130	
Propane	ND	250.0	724	1000	72.4	70 - 130	
Tetrahydrofuran	ND	50.0	924	1000	92.4	70 - 130	
Toluene	ND	50.0	996	1000	99.6	70 - 130	
Xylenes	ND	50.0	3990	4000	99.6	70 - 130	



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

ME

LR

LOQ

Marginal Exceedance

Low Recovery Analyte

Limit of Quantitation

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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 (EDI
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