

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

Sample Type: Extracts Sample Date: 2/18/2020 Analysis Date: 2/19/2020 Report Date: 2/20/2020

1A4010300016315000022443 Metrc Sample ID: 1A4010300016315000022508 Harvest/Process Date: 2/16/2020 Report ID: LS-200220-11 Sample Plan ID:SP-200218-1-B Sample Procedure: 160721 LAB-SOP_SampleCollection-v007

Potency

Potency Analysis Date: 2/19/2020 Potency Batch ID: CAN_021920E Potency Method: JAOAC 2015.1

71.9%

Total THC

0.193%

Total CBD

Samples: TFD-FJX-GHB, ZTD-GWJ-DGB



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Uni
Д9ТНС	Delta-9 Tetrahydrocannabinol	0.16	5.91	69.8	74.0	71.9	
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	18.5	<l0q< td=""><td>0.193</td><td>0.193</td><td>•</td></l0q<>	0.193	0.193	•
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	24.9	ND	0.206	0.103	•
CBG	Cannabigerol*	0.16	6.84	2.05	2.19	2.12	•
CBGA	Cannabigerolic acid*	0.16	0.00	ND	ND	ND	
CBC	Cannabichromene*	0.16	1.15	1.27	1.28	1.27	•
CBCA	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
CBN	Cannabinol	0.16	20.6	0.337	0.415	0.376	•
Total THC	Δ9THC + (THCA × 0.877)		5.91	69.8	74.0	71.9	
Total CBD	CBD + (CBDA × 0.877)		18.5	<l0q< td=""><td>0.193</td><td>0.193</td><td>•</td></l0q<>	0.193	0.193	•
Total			6.06	73.4	78.3	76.0	

Compliance

Pesticides	Within limits	Analysis Date: 2/19/2020	Pass 🛇
Solvents	Within limits	Analysis Date: 2/20/2020	Pass 🕢
Potency	Within limits	Analysis Date: 2/19/2020	Pass 🕢

Prupe Metal Bryce Kidd, Ph.D. Lab Director

Chief Science Officer





Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 2/18/2020 Analysis Date: 2/19/2020 Report Date: 2/20/2020

Metrc Batch ID: 1A4010300016315000022443 Metrc Sample ID: 1A4010300016315000022508

Terpene Analysis Date: 2/19/2020

Terpene Batch ID: TRP 021920A

Harvest/Process Date: 2/16/2020 Report ID: LS-200220-11 Sample Plan ID:SP-200218-1-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Method: JAOAC 2015.1

Unit: %



Camphene

Δ3-Carene

Camphore

Cedrol

Cymene

Geraniol

Nerol Azulene

Analyte	Avg.	Notes
β-Caryophyllene	3.50%	
Humulene	1.62%	
Linalool	0.566%	
α-Terpineol	0.330%	•
Fenchol	0.320%	•
Limonene	0.306%	•
α-Bisabolol	0.218%	•
β-Ocimene	0.0942%	•
β-Myrcene	0.0853%	•
Selinadiene	0.0436%	•
Caryophyllene Oxide	0.0335%	•
β-Pinene	0.0248%	•
Sabinene	0.0226%	•
Borneol	0.0224%	•
α-Ocimene	0.0211%	•
Eucalyptol	0.0176%	•
Fenchone	0.0158%	•
Terpinolene	0.0148%	•
α-Pinene	0.0101%	•
γ-Terpinene	0.00437%	•
α-Terpinene	0.00355%	•

0.00270%

0.00210%

0.00118%

ND

ND

ND

ND

ND

Analyte	Avg.	Notes	
Geranyl Acetate	ND		
Guaiol	ND		
Isoborneol	ND		
Isopulegol	ND		
Pulegone	ND		
Sabinene Hydrate	ND		
Valencene	ND		
cis-Nerolidol	ND		
trans-Nerolidol	ND		
α-Cedrene	ND		
α-Phellandrene	ND		
β-Farnesene 1	ND		
β-Farnesene 2	ND		
γ-Terpineol	ND		
Total	7.28%		



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

Sample Type: Extracts Sample Date: 2/18/2020 Analysis Date: 2/19/2020 Report Date: 2/20/2020

1A4010300016315000022443 Metrc Sample ID: 1A4010300016315000022508 Harvest/Process Date: 2/16/2020 Report ID: LS-200220-11 Sample Plan ID:SP-200218-1-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Pesticides Analysis Date: 2/19/2020 Pesticides Batch ID: PST 021920B

Method: EN 15662 Unit: µg/g (ppm)

Pass 🕢

Analyte	ZTD-GWJ-DGB	TFD-FJX-GHB	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

FD-FJX-GHB	Limits	LOQ	Notes	Status
ND	0.2	0.1		Pass
ND	0.2	0.1		Pass
ND	0.4	0.1		Pass
ND	0.2	0.2		Pass
ND	0.2	0.2		Pass
ND	0.2	0.1		Pass
ND	0.5	0.2		Pass
ND	1.0	0.1		Pass
ND	0.4	0.1		Pass
ND	0.2	0.1		Pass
ND	0.2	0.1		Pass
ND	2.0	0.1		Pass
ND	0.2	0.1		Pass
ND	0.4	0.1		Pass
ND	0.2	0.1		Pass
ND	1.0	0.5		Pass
ND	0.2	0.1		Pass
ND	0.2	0.1		Pass
ND	0.2	0.1		Pass
ND	0.2	0.1		Pass
ND	0.4	0.1		Pass
ND	0.4	0.1		Pass
ND	0.2	0.1		Pass
ND	0.2	0.1		Pass
	ND N	ND	ND	ND



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts
Sample Date: 2/18/2020
Analysis Date: 2/19/2020
Report Date: 2/20/2020

Metrc Batch ID: 1A4010300016315000022443 Metrc Sample ID: 1A4010300016315000022508 Harvest/Process Date: 2/16/2020 Report ID: LS-200220-11 Sample Plan ID:SP-200218-1-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Pesticides Quality Control Data

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	1.22	1.00	122	50 - 150	
Acephate	ND	0.1	0.952	1.00	95.2	50 - 150	
Acequinocyl	ND	1.5	1.10	1.00	110	50 - 150	
Acetamiprid	ND	0.1	1.01	1.00	101	50 - 150	
Aldicarb	ND	0.1	0.582	1.00	58.2	50 - 150	
Azoxystrobin	ND	0.1	1.05	1.00	105	50 - 150	
Bifenazate	ND	0.1	3.86	1.00	386	50 - 150	НВ
Bifenthrin	ND	0.1	0.742	1.00	74.2	50 - 150	
Boscalid	ND	0.1	0.872	1.00	87.2	50 - 150	
Carbaryl	ND	0.1	0.676	1.00	67.6	50 - 150	
Carbofuran	ND	0.1	0.907	1.00	90.7	50 - 150	
Chlorantraniliprole	ND	0.1	1.15	1.00	115	50 - 150	
Chlorfenapyr	ND	0.1	1.20	1.00	120	50 - 150	
Chlorpyrifos	ND	0.1	0.874	1.00	87.4	50 - 150	
Clofentezine	ND	0.1	0.860	1.00	86.0	50 - 150	
Cyfluthrin	ND	0.5	1.25	1.00	125	50 - 150	
Cypermethrin	ND	0.1	1.04	1.00	104	50 - 150	
Daminozide	ND	0.5	ND	1.00	0.00	10 - 150	ND
Diazinon	ND	0.1	1.22	1.00	122	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.530	1.00	53.0	50 - 150	
Dimethoate	ND	0.1	0.818	1.00	81.8	50 - 150	
Ethoprophos	ND	0.1	1.31	1.00	131	50 - 150	
Etofenprox	ND	0.1	0.905	1.00	90.5	50 - 150	
Etoxazole	ND	0.1	0.846	1.00	84.6	50 - 150	
Fenoxycarb	ND	0.1	1.48	1.00	148	50 - 150	
Fenpyroximate	ND	0.1	0.954	1.00	95.4	50 - 150	
Fipronil	ND	0.1	1.62	1.00	162	50 - 150	ME
Flonicamid	ND	0.1	0.766	1.00	76.6	50 - 150	
Fludioxonil	ND	0.1	1.16	1.00	116	50 - 150	
Hexythiazox	ND	0.1	0.678	1.00	67.8	50 - 150	
Imazalil	ND	0.1	1.07	1.00	107	50 - 150	
Imidacloprid	ND	0.1	1.01	1.00	101	50 - 150	
Kresoxim-methyl	ND	0.1	1.10	1.00	110	50 - 150	
Malathion	ND	0.1	1.12	1.00	112	50 - 150	

Pesticides QC Analysis Date: 2/19/2020 Pesticides QC Batch ID: PST_021920B

Method: EN 15662 Unit: μg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Metalaxyl	ND	0.1	0.836	1.00	83.6	50 - 150	
Methiocarb	ND	0.1	0.882	1.00	88.2	50 - 150	
Methomyl	ND	0.1	0.501	1.00	50.1	50 - 150	
Methyl Parathion	ND	0.2	0.719	1.00	71.9	30 - 150	
MGK-264	ND	0.2	0.727	0.600	121	50 - 150	
Myclobutanil	ND	0.1	1.03	1.00	103	50 - 150	
Naled	ND	0.2	2.04	1.00	204	50 - 150	НВ
Oxamyl	ND	0.1	0.666	1.00	66.6	50 - 150	
Paclobutrazol	ND	0.1	0.764	1.00	76.4	50 - 150	
Permethrins	ND	0.1	0.934	1.00	93.4	50 - 150	
Phosmet	ND	0.1	0.815	1.00	81.5	50 - 150	
Piperonyl Butoxide	ND	0.1	0.780	1.00	78.0	50 - 150	
Prallethrin	ND	0.1	0.945	1.00	94.5	50 - 150	
Propiconazole	ND	0.1	1.18	1.00	118	50 - 150	
Propoxur	ND	0.1	0.724	1.00	72.4	50 - 150	
Pyrethrins	ND	0.5	0.642	1.00	64.2	50 - 150	
Pyridaben	ND	0.1	1.08	1.00	108	50 - 150	
Spinosad	ND	0.1	1.23	1.00	123	50 - 150	
Spiromesifen	ND	0.1	1.35	1.00	135	50 - 150	
Spirotetramat	ND	0.1	1.42	1.00	142	50 - 150	
Spiroxamine	ND	0.1	1.18	1.00	118	50 - 150	
Tebuconazole	ND	0.1	1.13	1.00	113	50 - 150	
Thiacloprid	ND	0.1	0.729	1.00	72.9	50 - 150	
Thiamethoxam	ND	0.1	0.660	1.00	66.0	50 - 150	
Trifloxystrobin	ND	0.1	1.65	1.00	165	50 - 150	ME



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

Sample Type: Extracts Sample Date: 2/18/2020 Analysis Date: 2/19/2020 Report Date: 2/20/2020

1A4010300016315000022443 Metrc Sample ID: 1A4010300016315000022508 Harvest/Process Date: 2/16/2020 Report ID: LS-200220-11 Sample Plan ID:SP-200218-1-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Solvents Analysis Date: 2/20/2020 Solvents Batch ID: RES 021920A

Method: EPA 5021A Unit: µg/g (ppm)

Pass 🕢

Analyte	ZTD-GWJ-DGB	TFD-FJX-GHB	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



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts
Sample Date: 2/18/2020
Analysis Date: 2/19/2020
Report Date: 2/20/2020

Metrc Batch ID: 1A4010300016315000022443 Metrc Sample ID: 1A4010300016315000022508 Harvest/Process Date: 2/16/2020 Report ID: LS-200220-11 Sample Plan ID:SP-200218-1-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Solvents QC Analysis Date: 2/20/2020 Solvents QC Batch ID: RES 021920A Method: EPA 5021A Unit: μg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
1,4-Dioxane	ND	50.0	1040	1000	104	70 - 130	
2-Butanol	ND	250.0	1010	1000	101	70 - 130	
2-Ethoxyethanol	ND	50.0	981	1000	98.1	70 - 130	
Acetone	ND	250.0	1010	1000	101	70 - 130	
Acetonitrile	ND	50.0	996	1000	99.6	70 - 130	
Benzene	ND	2.0	24.4	20.0	122	70 - 130	
Butanes	ND	250.0	1980	2000	98.9	70 - 130	
Cumene	ND	50.0	1000	1000	100	70 - 130	
Cyclohexane	ND	50.0	1010	1000	101	70 - 130	
Ethyl Acetate	ND	250.0	977	1000	97.7	70 - 130	
Ethyl Ether	ND	250.0	1020	1000	102	70 - 130	
Ethylene Glycol	ND	250.0	899	1000	89.9	70 - 130	
Ethylene Oxide	ND	50.0	964	1000	96.4	70 - 130	
Heptane	ND	250.0	977	1000	97.7	70 - 130	
Hexanes	ND	50.0	4990	5000	99.8	70 - 130	
Isopropanol (2-Propanol)	ND	50.0	1010	1000	101	70 - 130	
Isopropyl Acetate	ND	250.0	1010	1000	101	70 - 130	
Methanol	ND	250.0	1200	1000	120	70 - 130	
Dichloromethane	ND	50.0	1020	1000	102	70 - 130	
Pentanes	ND	250.0	3000	3000	100	70 - 130	
Propane	ND	250.0	1010	1000	101	70 - 130	
Tetrahydrofuran	ND	50.0	1000	1000	100	70 - 130	
Toluene	ND	50.0	1030	1000	103	70 - 130	
Xylenes	ND	50.0	4030	4000	101	70 - 130	



Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts
Sample Date: 2/18/2020
Analysis Date: 2/19/2020
Report Date: 2/20/2020

Metrc Batch ID: 1A4010300016315000022443 Metrc Sample ID: 1A4010300016315000022508 Harvest/Process Date: 2/16/2020 Report ID: LS-200220-11 Sample Plan ID:SP-200218-1-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

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