

Farmer's Friend Extracts 6451 NF 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

1A4010300016315000020543 Metrc Sample ID: 1A4010300016315000020590 Harvest/Process Date: 12/29/2019 Report ID:

LS-200107-5

Potency

Potency Analysis Date: 1/6/2020 Potency Batch ID: CAN_010620D Potency Method: JAOAC 2015.1

46.1%

Total CBD

Total THC

Samples: BBP-CWN-RJW, GCH-HZR-DCG



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: %
Д9ТНС	Delta-9 Tetrahydrocannabinol	0.16	6.15	23.1	24.6	23.8	
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	5.46	42.8	45.2	44.0	
CBDA	Cannabidiolic acid	0.16	14.7	2.15	2.49	2.32	•
Δ8ΤΗC	Delta-8 Tetrahydrocannabinol*	0.16	39.2	ND	0.238	0.119	•
THCV	Tetrahydrocannabivarin*	0.16	36.0	ND	0.230	0.115	•
CBG	Cannabigerol*	0.16	1.25	1.75	1.78	1.76	•
CBGA	Cannabigerolic acid*	0.16	16.6	0.318	0.376	0.347	•
CBC	Cannabichromene*	0.16	12.9	1.07	1.22	1.14	•
CBCA	Cannabichromenic acid*	0.16	52.4	ND	0.274	0.137	•
CBN	Cannabinol	0.16	9.75	ND	0.176	0.0882	•
Total THC	Δ9THC + (THCA × 0.877)		6.15	23.1	24.6	23.8	
Total CBD	CBD + (CBDA × 0.877)		5.87	44.7	47.4	46.1	
Total			7.03	71.2	76.6	73.9	

Compliance

Pesticides	Within limits	Analysis Date: 1/3/2020	Pass 🔗
Solvents	Within limits	Analysis Date: 1/3/2020	Pass 🛇
Potency	Within limits	Analysis Date: 1/6/2020	Pass 🕢

noted, samples were received in good condition and Quality Control samples met acceptance criteria. This Certificate shall not be reproduced except in full, without the written

Bryce Kidd, Ph.D. Lab Director

approval of Lightscale Labs. Results marked with an asterisk (*) are not within scope of accreditation and for informational purposes only.



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Sample Type: Extracts Sample Date: 12/30/2019 Analysis Date: 1/2/2020 Report Date: 1/7/2020

1A4010300016315000020543 Metrc Sample ID: 1A4010300016315000020590 Harvest/Process Date: 12/29/2019

Report ID:

Unit: %

LS-200107-5

Method: JAOAC 2015.1

Terpenes* Sample Data

Analyte	Avg.	Notes
β-Caryophyllene	1.65%	
β-Farnesene 2	0.814%	
Humulene	0.493%	
α-Bisabolol	0.178%	
Guaiol	0.112%	
Linalool	0.0752%	
Caryophyllene Oxide	0.0515%	
α-Terpineol	0.0437%	
Selinadiene	0.0265%	
Terpinolene	0.0126%	
Limonene	0.00182%	
α-Pinene	0.000872%	
β-Myrcene	0.000589%	
γ-Terpinene	0.000547%	
Sabinene	0.000403%	
Azulene	ND	
Borneol	ND	
Camphene	ND	
Camphore	ND	
Cedrol	ND	
Cymene	ND	
Eucalyptol	ND	
Fenchol	ND	
Fenchone	ND	
Geraniol	ND	
Geranyl Acetate	ND	
Isoborneol	ND	
Isopulegol	ND	
Nerol	ND	
	110	

Terpene Analysis Date: 1/2/2020 Terpene Batch ID: TRP 1220A

Total

Analyte	Avg.	Notes
Pulegone	ND	
Sabinene Hydrate	ND	
Valencene	ND	
cis-Nerolidol	ND	
trans-Nerolidol	ND	
Δ3-Carene	ND	
α-Cedrene	ND	
α-Ocimene	ND	
α-Phellandrene	ND	
α-Terpinene	ND	
β-Farnesene 1	ND	
β-Ocimene	ND	
β-Pinene	ND	
γ-Terpineol	ND	

3.46%



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: 1A4010300016315000020543 Metrc Sample ID: 1A4010300016315000020590 Harvest/Process Date: 12/29/2019 Report ID:

LS-200107-5

Pesticides
Sample Data

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

Acephate ND ND 0.4 0.1 Pass Acequinocyl ND ND 2.0 1.5 Pass Acetamiprid ND ND ND 0.2 0.1 Pass Aldicarb ND ND ND 0.2 0.1 Pass Aldicarb ND ND ND 0.2 0.1 Pass Aldicarb ND ND ND 0.2 0.1 Pass Bifentara ND ND ND 0.2 0.1 Pass Bifenthrin ND ND ND 0.2 0.1 Pass Bifenthrin ND ND ND 0.2 0.1 Pass Bifenthrin ND ND ND 0.2 0.1 Pass Carbaryl ND ND ND 0.2 0.1 Pass Chloratraniliprole ND ND ND 0.2 0.1 Pass Chloryprifos	Analyte	BBP-CWN-RJW	GCH-HZR-DCG	Limits	LOQ	Notes	Status
Acequinocyl ND ND 2.0 1.5 Pass Acetamiprid ND ND 0.2 0.1 Pass Aldicarb ND ND 0.4 0.1 Pass Aldicarb ND ND 0.4 0.1 Pass Bifenzate ND ND ND 0.2 0.1 Pass Bifenzate ND ND ND 0.2 0.1 Pass Bifenzate ND ND ND 0.2 0.1 Pass Bifenthrin ND ND ND 0.2 0.1 Pass Boscalid ND ND ND 0.2 0.1 Pass Boscalid ND ND ND 0.2 0.1 Pass Carbaryl ND ND ND 0.2 0.1 Pass Chlorantraniliprole ND ND ND 0.2 0.1 Pass Chlorantraniliprole ND ND ND 0.2 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND 1.0 0.5 Pass Cypermethrin ND ND 1.0 0.5 Pass Diazinon ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Etofenprox ND ND ND 0.2 0.1 Pass Etorazole ND ND ND 0.4 0.1 Pass Etorazola ND ND N	Abamectin	ND	ND	0.5	0.1		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 ND 0.2 0.1 Pass Bifenthrin ND ND ND 0.2 0.1 Pass Boscalid ND ND ND 0.4 0.1 Pass Carbaryl ND ND ND 0.2 0.1 Pass Carbofuran ND ND ND 0.2 0.1 Pass Chlorantraniliprole ND ND ND 0.2 0.1 Pass Chlorfenapyr ND ND ND 0.2 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 0.2 0.1 Pass Cypermethrin	Acephate	ND	ND	0.4	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 Chlorfantraniliprole ND ND ND 0.2 0.1 Pass Chlorfenapyr ND ND ND 0.2 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Clofentezine ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Cypermethrin ND ND ND 1.0	Acequinocyl	ND	ND	2.0	1.5		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 ND 0.2 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Clofentezine ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Cypermethrin ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 0.2	Acetamiprid	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 0.2 0.1 Pass Carbaryl ND ND ND 0.2 0.1 Pass Carbaryl ND ND ND 0.2 0.1 Pass Chlorantraniliprole ND ND ND 0.2 0.1 Pass Chlorantraniliprole ND ND ND 0.2 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Clofentezine ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Cypermethrin ND ND 1.0 0.5 Pass Cypermethrin ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Dimethoate ND ND ND 1.0 0.5 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.2 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.2 0.1 Pass Fipronil ND ND	Aldicarb	ND	ND	0.4	0.1		Pass
Bifenthrin ND ND 0.2 0.1 Pass Boscalid ND ND 0.4 0.1 Pass Carbaryl ND ND ND 0.2 0.1 Pass Carbofuran ND ND ND 0.2 0.1 Pass Chlorantraniliprole ND ND ND 0.2 0.1 Pass Chlorantraniliprole ND ND ND 0.2 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Clofentezine ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Cypermethrin ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Dimethoate ND ND ND 1.0 0.5 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.2 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.2 0.1 Pass Fipronil ND	Azoxystrobin	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 ND 0.2 0.1 Pass Chlorantraniliprole ND ND ND 0.2 0.1 Pass Chlorenapyr ND ND ND 1.0 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Clofentezine ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Daminozide ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Dichlorvos (DDVP) ND ND ND 1.0 0.5 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.2 0.1 Pass Etorazole ND ND ND 0.2 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fludioxonil ND ND ND 0.4 0.1 Pass Fludioxonil ND ND ND 0.4 0.1 Pass Fludioxonil ND ND ND 0.4 0.1 Pass Imazalil ND ND ND 0.2 0.1 Pass Imazalil ND ND ND 0.2 0.1 Pass	Bifenazate	ND	ND	0.2	0.1		Pass
Carbaryl ND ND 0.2 0.1 Pass Carbofuran ND ND 0.2 0.1 Pass Chlorantraniliprole ND ND ND 0.2 0.1 Pass Chlorfenapyr ND ND ND 0.2 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Clofentezine ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Cypermethrin ND ND ND 1.0 0.1 Pass Cypermethrin ND ND ND 1.0 0.1 Pass Cypermethrin ND ND 1.0 0.5 Pass Diazinon ND ND 1.0 0.1 Pass Diazinon ND ND 0.2 0.1 Pass Ethoprovos (DDVP) ND N	Bifenthrin	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 ND 1.0 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Clofentezine ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Cypermethrin ND ND ND 1.0 0.5 Pass Cypermethrin ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 1.0 0.5 Pass Ethoprophos ND ND ND 1.0 0.5 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.2 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fludioxonil ND ND ND 0.4 0.1 Pass Fludioxonil ND ND ND 0.4 0.1 Pass Imazalil ND ND ND 0.2 0.1 Pass Imazalil ND ND ND 0.2 0.1 Pass Imidacloprid ND ND ND 0.2 0.1 Pass Imidacloprid ND ND ND 0.2 0.1 Pass Imidacloprid ND ND ND 0.4 0.1 Pass Imidacloprid ND ND ND 0.2 0.1 Pass Imidacloprid ND ND ND 0.4 0.1 Pass Imi	Boscalid	ND	ND	0.4	0.1		Pass
Chlorantraniliprole ND ND 0.2 0.1 Pass Chlorfenapyr ND ND ND 1.0 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Clofentezine ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Cypermethrin ND ND ND 1.0 0.1 Pass Daminozide ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 0.2 0.1 Pass Dichlorvos (DDVP) ND ND ND 0.5 Pass Dimethoate ND ND ND 0.5 Pass Ethoprophos ND ND 0.2 0.1 Pass Etofenprox ND ND 0.4 0.1 Pass Fenoxycarb ND ND	Carbaryl	ND	ND	0.2	0.1		Pass
Chlorfenapyr ND ND 1.0 0.1 Pass Chlorpyrifos ND ND ND 0.2 0.1 Pass Clofentezine ND ND ND 0.2 0.1 Pass Cyfluthrin ND ND ND 1.0 0.5 Pass Cypermethrin ND ND ND 1.0 0.1 Pass Daminozide ND ND ND 0.2 0.1 Pass Diazinon ND ND ND 0.2 0.1 Pass Diazinor ND ND ND 0.2 0.1 Pass Diazinor ND ND ND 0.5 Pass Diazinor ND ND 0.2 0.1 Pass Ethoryos (DDVP) ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND <t< td=""><td>Carbofuran</td><td>ND</td><td>ND</td><td>0.2</td><td>0.1</td><td></td><td>Pass</td></t<>	Carbofuran	ND	ND	0.2	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 ND 1.0 0.1 Pass Daminozide ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 0.2 0.1 Pass Dichlorvos (DDVP) ND ND ND 1.0 0.5 Pass Dimethoate ND ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.4 0.1 Pass Fenoxycarle ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fludioxonil	Chlorantraniliprole	ND	ND	0.2	0.1		Pass
Clofentezine	Chlorfenapyr	ND	ND	1.0	0.1		Pass
Cyfluthrin ND ND 1.0 0.5 Pass Cypermethrin ND ND 1.0 0.1 Pass Daminozide ND ND ND 1.0 0.5 Pass Diazinon ND ND ND 0.2 0.1 Pass Dichlorvos (DDVP) ND ND ND 0.5 Pass Dimethoate ND ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.4 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fludioxonil ND ND ND 0.4 0.1 Pass Imazalil	Chlorpyrifos	ND	ND	0.2	0.1		Pass
Cypermethrin ND ND 1.0 0.1 Pass Daminozide ND ND 1.0 0.5 Pass Diazinon ND ND ND 0.2 0.1 Pass Dichlorvos (DDVP) ND ND ND 0.5 Pass Dimethoate ND ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.4 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fipronil ND ND 0.4 0.1 Pass Fludioxonil ND ND 0.4 0.1 Pass Fludioxonil ND ND 0.4 0.1 Pass Imazalil ND ND 0.2 <t< td=""><td>Clofentezine</td><td>ND</td><td>ND</td><td>0.2</td><td>0.1</td><td></td><td>Pass</td></t<>	Clofentezine	ND	ND	0.2	0.1		Pass
Daminozide ND ND 1.0 0.5 Pass Diazinon ND ND ND 0.2 0.1 Pass Dichlorvos (DDVP) ND ND ND 1.0 0.5 Pass Dimethoate ND ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.4 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fludioxonil ND ND 0.4 0.1 Pass Fludioxonil ND ND 0.4 0.1 Pass Imazalil ND ND 0.2 0.1 Pass Imidacloprid ND <t< td=""><td>Cyfluthrin</td><td>ND</td><td>ND</td><td>1.0</td><td>0.5</td><td></td><td>Pass</td></t<>	Cyfluthrin	ND	ND	1.0	0.5		Pass
Diazinon ND ND 0.2 0.1 Pass Dichlorvos (DDVP) ND ND ND 1.0 0.5 Pass Dimethoate ND ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.4 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fipronil ND ND 0.4 0.1 Pass Flonicamid ND ND 0.4 0.1 Pass Fludioxonil ND ND 0.4 0.1 Pass Hexythiazox ND ND 0.2 0.1 Pass Imidacloprid ND ND 0.4 0.1 Pass	Cypermethrin	ND	ND	1.0	0.1		Pass
Dichlorvos (DDVP) ND ND 1.0 0.5 Pass Dimethoate ND ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.4 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Flonicamid ND ND ND 0.4 0.1 Pass Fludioxonil ND ND 0.4 0.1 Pass Hexythiazox ND ND 0.2 0.1 Pass Imidacloprid ND ND 0.4 0.1 Pass	Daminozide	ND	ND	1.0	0.5		Pass
Dimethoate ND ND 0.2 0.1 Pass Ethoprophos ND ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.4 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.4 0.1 Pass Fenpyroximate ND ND ND 0.4 0.1 Pass Flonicamid ND ND ND 0.1 Pass Fludioxonil ND ND 0.4 0.1 Pass Hexythiazox ND ND 0.2 0.1 Pass Imazalil ND ND 0.2 0.1 Pass Imidacloprid ND ND 0.4 0.1 Pass	Diazinon	ND	ND	0.2	0.1		Pass
Ethoprophos ND ND 0.2 0.1 Pass Etofenprox ND ND ND 0.4 0.1 Pass Etoxazole ND ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fenpyroximate ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fludioxomid ND ND 0.4 0.1 Pass Fludioxonil ND ND 0.4 0.1 Pass Imazalil ND ND 0.2 0.1 Pass Imidacloprid ND ND 0.4 0.1 Pass	Dichlorvos (DDVP)	ND	ND	1.0	0.5		Pass
Etofenprox ND ND 0.4 0.1 Pass Etoxazole ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.4 0.1 Pass Fenpyroximate ND ND ND 0.4 0.1 Pass Fipronil ND ND ND 0.4 0.1 Pass Fludioxonil ND ND ND 0.4 0.1 Pass Hexythiazox ND ND ND 0.2 0.1 Pass Imazalil ND ND ND 0.4 0.1 Pass Imidacloprid ND ND 0.4 0.1 Pass	Dimethoate	ND	ND	0.2	0.1		Pass
Etoxazole ND ND 0.2 0.1 Pass Fenoxycarb ND ND ND 0.2 0.1 Pass Fenpyroximate ND ND ND 0.4 0.1 Pass Fipronil ND 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	Ethoprophos	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	Etofenprox	ND	ND	0.4	0.1		Pass
Fenpyroximate ND ND 0.4 0.1 Pass Fipronil ND 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	Etoxazole	ND	ND	0.2	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	Fenoxycarb	ND	ND	0.2	0.1		Pass
Flonicamid	Fenpyroximate	ND	ND	0.4	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	Fipronil	ND	ND	0.4	0.1		Pass
HexythiazoxNDND1.00.1PassImazalilNDND0.20.1PassImidaclopridNDND0.40.1Pass	Flonicamid	ND	ND	1.0	0.1		Pass
ImazalilNDND0.20.1PassImidaclopridNDND0.40.1Pass	Fludioxonil	ND	ND	0.4	0.1		Pass
Imidacloprid ND ND 0.4 0.1 Pass	Hexythiazox	ND	ND	1.0	0.1		Pass
·	Imazalil	ND	ND	0.2	0.1		Pass
Kresoxim-methyl ND ND 0.4 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		Pass

Analyte	BBP-CWN-RJW	GCH-HZR-DCG	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



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: 1A4010300016315000020543 Metrc Sample ID: 1A4010300016315000020590 Harvest/Process Date: 12/29/2019

Report ID:

LS-200107-5

Pesticides Quality Control Data

Blank LOQ LCS LCS Spike LCS Rec (%) Limits (%) Analyte Abamectin 0.1 0.886 1.00 88.6 50 - 150 Acenhate ND 0.1 0.714 1 99 71.4 50 - 150 Acequinocyl ND 1.5 0.604 1.00 60.4 50 - 150 Acetamiprid ND 0.1 1.04 1 99 194 50 - 150 Aldicarb ND 0.1 0.817 81.7 50 - 150 1.00 Azoxystrobin ND 0.1 0.949 1.00 94.9 50 - 150 0.213 50 - 150 Bifenazate ND Bifenthrin 0.1 0.573 57.3 ND 1.00 50 - 150 Boscalid 0.1 0.790 79.0 50 - 150 1.00 Carbarvl ND 0.1 0.835 1 99 83.5 50 - 150 ND 1.00 50 - 150 Chlorantraniliprole ND 0.1 0.979 97.9 50 - 150 1.00 Chlorfenapyr 1.00 50 - 150 Chlorpyrifos 0.1 0.795 79.5 50 - 150 ND 1.00 Clofentezine ND 0.686 1.00 50 - 150 Cyfluthrin ND 0.5 0.853 1 99 85.3 50 - 150 Cypermethrin 93.7 0.1 0.937 1.00 50 - 150 Daminozide 10 - 150 ND 0.5 ND 1 99 9.996 ND 0.1 0.842 1.00 50 - 150 Dichlorvos (DDVP) ND 0.5 0.918 1.00 91.8 50 - 150 Dimethoate ND 0.1 0.876 1.00 50 - 150 Ethoprophos ND 0.1 1.01 1.00 101 50 - 150 Etofenprox ND 0.1 0.755 1.00 50 - 150 0.1 0.913 91.3 Etoxazole ND 1 99 50 - 150 Fenoxycarb ND 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 90.3 1.00 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	



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: 1A4010300016315000020543 Metrc Sample ID: 1A4010300016315000020590 Harvest/Process Date: 12/29/2019

Report ID:

LS-200107-5

Residual Solvents
Sample Data

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

Analyte	BBP-CWN-RJW	GCH-HZR-DCG	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	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: 12/30/2019 Analysis Date: 1/2/2020 Report Date: 1/7/2020

Metrc Batch ID: 1A4010300016315000020543 Metrc Sample ID: 1A4010300016315000020590 Harvest/Process Date: 12/29/2019

Report ID:

LS-200107-5

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 Sample Type: Extracts Sample Date: 12/30/2019 Analysis Date: 1/2/2020 Report Date: 1/7/2020

Metrc Batch ID: 1A4010300016315000020543 Metrc Sample ID: 1A4010300016315000020590 Harvest/Process Date: 12/29/2019 Report ID:

LS-200107-5

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