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408 - Purple Punch RCO 3.21.20

Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653 Sample Type: Extracts Sample Date: 3/23/2020 Analysis Date: 3/24/2020 Report Date: 3/26/2020

Metrc Batch ID: 1A4010300016315000023575 Metrc Sample ID: 1A4010300016315000023578 Harvest/Process Date: 3/21/2020 Report ID: LS-200326-10 Sample Plan ID:SP-200323-6-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Potency

Potency Analysis Date: 3/24/2020 Potency Batch ID: CAN_032420A Potency Method: JAOAC 2015.1

74.0%	Total THC
0.491%	Total CBD

Samples: XZR-NXX-XNN, MSD-FZM-NRS



Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: %
Δ9ΤΗC	Delta-9 Tetrahydrocannabinol	0.16	0.340	73.8	74.1	74.0	
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	31.4	0.268	0.367	0.317	•
CBDA	Cannabidiolic acid	0.16	21.2	<l0q< td=""><td>0.198</td><td>0.198</td><td>•</td></l0q<>	0.198	0.198	•
∆8THC	Delta-8 Tetrahydrocannabinol*	0.16	0.00	ND	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
THCV	Tetrahydrocannabivarin*	0.16	8.37	1.01	1.10	1.05	•
CBG	Cannabigerol*	0.16	11.7	1.53	1.72	1.62	•
CBGA	Cannabigerolic acid*	0.16	74.5	ND	0.350	0.175	•
CBC	Cannabichromene*	0.16	3.09	1.64	1.69	1.67	•
CBCA	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
CBN	Cannabinol	0.16	19.3	0.297	0.360	0.329	•
Total THC	Δ9THC + (THCA × 0.877)		0.340	73.8	74.1	74.0	
Total CBD	CBD + (CBDA × 0.877)		18.3	0.268	0.541	0.491	•
Total			0.298	78.6	79.9	79.3	

Compliance

Pesticides	Within limits	Analysis Date: 3/24/2020	Pass ⊘
Solvents	Within limits	Analysis Date: 3/24/2020	Pass ⊘
Potency	Within limits	Analysis Date: 3/24/2020	Pass ⊘

Bryce Kidd, Ph.D. Lab Director

Aaron Troyer

Chief Science Officer



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Terpenes* Sample Data

Sample Type: Extracts Sample Date: 3/23/2020 Analysis Date: 3/24/2020 Report Date: 3/26/2020

Metrc Batch ID:

1A4010300016315000023575 Metrc Sample ID: 1A4010300016315000023578 Harvest/Process Date: 3/21/2020 Report ID: LS-200326-10 Sample Plan ID:SP-200323-6-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Terpene Analysis Date: 3/24/2020 Terpene Batch ID: TRP_032420A Method: JAOAC 2015.1 Unit: %

Analyte	Avg.	Notes
β-Caryophyllene	2.41%	
Humulene	0.797%	_
Selinadiene	0.397%	-
Linalool	0.363%	-
Guaiol	0.307%	-
α-Bisabolol	0.212%	•
Limonene	0.198%	•
a-Terpineol	0.198%	•
Fenchol	0.153%	•
Caryophyllene Oxide	0.146%	•
β-Myrcene	0.102%	•
β-Ocimene	0.0321%	•
β-Pinene	0.0278%	•
Sabinene	0.0255%	•
Terpinolene	0.0220%	•
Borneol	0.0185%	•
Fenchone	0.0143%	•
a-Pinene	0.0130%	•
Geraniol	0.00455%	•
a-Ocimene	0.00436%	•
Camphene	0.00395%	•
a-Terpinene	0.00298%	•
γ-Terpinene	0.00272%	•
∆3-Carene	0.00206%	•
Azulene	ND	
Camphore	ND	
Cedrol	ND	
Cymene	ND	
Eucalyptol	ND	

Analyte	Avg.	Notes
Geranyl Acetate	ND	
Isoborneol	ND	
Isopulegol	ND	
Nerol	ND	
Pulegone	ND	
Sabinene Hydrate	ND	
Valencene	ND	
cis-Nerolidol	ND	
trans-Nerolidol	ND	
a-Cedrene	ND	
α-Phellandrene	ND	
β-Farnesene 1	ND	
β-Farnesene 2	ND	
γ-Terpineol	ND	
Total	5.46%	



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Pesticides

Sample Data

Sample Type: Extracts Sample Date: 3/23/2020 Analysis Date: 3/24/2020 Report Date: 3/26/2020

Metrc Batch ID:

1A4010300016315000023575 Metrc Sample ID: 1A4010300016315000023578 Harvest/Process Date: 3/21/2020 Report ID: LS-200326-10 Sample Plan ID:SP-200323-6-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Pesticides Analysis Date: 3/24/2020 Pesticides Batch ID: PST_032420A **Method**: EN 15662 **Unit:** μg/g (ppm) Pass ⊘

Analyte	MSD-FZM-NRS	XZR-NXX-XNN	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	MSD-FZM-NRS	XZR-NXX-XNN	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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Sample Type: Extracts Sample Date: 3/23/2020 Analysis Date: 3/24/2020 Report Date: 3/26/2020 Metrc Batch ID:

1A4010300016315000023575 Metrc Sample ID: 1A4010300016315000023578 Harvest/Process Date: 3/21/2020 Report ID: LS-200326-10 Sample Plan ID:SP-200323-6-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Pesticides QC Analysis Date: 3/24/2020 Pesticides QC Batch ID: PST_032420A 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	0.942	1.00	94.2	50 - 150	
Acephate	ND	0.1	0.988	1.00	98.8	50 - 150	
Acequinocyl	ND	1.5	1.39	1.00	139	50 - 150	
Acetamiprid	ND	0.1	0.959	1.00	95.9	50 - 150	
Aldicarb	ND	0.1	0.899	1.00	89.9	50 - 150	
Azoxystrobin	ND	0.1	0.944	1.00	94.4	50 - 150	
Bifenazate	ND	0.1	ND	1.00	0.00	50 - 150	ND
Bifenthrin	ND	0.1	0.940	1.00	94.0	50 - 150	
Boscalid	ND	0.1	0.945	1.00	94.5	50 - 150	
Carbaryl	ND	0.1	0.963	1.00	96.3	50 - 150	
Carbofuran	ND	0.1	1.06	1.00	106	50 - 150	
Chlorantraniliprole	ND	0.1	0.991	1.00	99.1	50 - 150	
Chlorfenapyr	ND	0.1	0.881	1.00	88.1	50 - 150	
Chlorpyrifos	ND	0.1	0.921	1.00	92.1	50 - 150	
Clofentezine	ND	0.1	0.858	1.00	85.8	50 - 150	
Cyfluthrin	ND	0.5	0.894	1.00	89.4	50 - 150	
Cypermethrin	ND	0.1	0.967	1.00	96.7	50 - 150	
Daminozide	ND	0.5	2.61	1.00	261	10 - 150	HB
Diazinon	ND	0.1	0.939	1.00	93.9	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.758	1.00	75.8	50 - 150	
Dimethoate	ND	0.1	0.981	1.00	98.1	50 - 150	
Ethoprophos	ND	0.1	0.939	1.00	93.9	50 - 150	
Etofenprox	ND	0.1	0.997	1.00	99.7	50 - 150	
Etoxazole	ND	0.1	5.43	1.00	543	50 - 150	HB
Fenoxycarb	ND	0.1	1.06	1.00	106	50 - 150	
Fenpyroximate	ND	0.1	0.938	1.00	93.8	50 - 150	
Fipronil	ND	0.1	1.00	1.00	100	50 - 150	
Flonicamid	ND	0.1	0.952	1.00	95.2	50 - 150	
Fludioxonil	ND	0.1	0.913	1.00	91.3	50 - 150	
Hexythiazox	ND	0.1	0.992	1.00	99.2	50 - 150	
Imazalil	ND	0.1	0.996	1.00	99.6	50 - 150	
Imidacloprid	ND	0.1	0.917	1.00	91.7	50 - 150	
Kresoxim-methyl	ND	0.1	0.943	1.00	94.3	50 - 150	
Malathion	ND	0.1	0.963	1.00	96.3	50 - 150	

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Metalaxyl	ND	0.1	0.895	1.00	89.5	50 - 150	
Methiocarb	ND	0.1	0.901	1.00	90.1	50 - 150	
Methomyl	ND	0.1	0.991	1.00	99.1	50 - 150	
Methyl Parathion	ND	0.2	0.305	1.00	30.5	30 - 150	
MGK-264	ND	0.2	0.545	0.600	90.9	50 - 150	
Myclobutanil	ND	0.1	1.02	1.00	102	50 - 150	
Naled	ND	0.2	0.803	1.00	80.3	50 - 150	
Oxamyl	ND	0.1	0.964	1.00	96.4	50 - 150	
Paclobutrazol	ND	0.1	0.993	1.00	99.3	50 - 150	
Permethrins	ND	0.1	0.889	1.00	88.9	50 - 150	
Phosmet	ND	0.1	0.892	1.00	89.2	50 - 150	
Piperonyl Butoxide	ND	0.1	0.997	1.00	99.7	50 - 150	
Prallethrin	ND	0.1	0.934	1.00	93.4	50 - 150	
Propiconazole	ND	0.1	0.958	1.00	95.8	50 - 150	
Propoxur	ND	0.1	0.946	1.00	94.6	50 - 150	
Pyrethrins	ND	0.5	0.476	1.00	47.6	50 - 150	ME
Pyridaben	ND	0.1	0.995	1.00	99.5	50 - 150	
Spinosad	ND	0.1	1.09	1.00	109	50 - 150	
Spiromesifen	ND	0.1	0.926	1.00	92.6	50 - 150	
Spirotetramat	ND	0.1	0.910	1.00	91.0	50 - 150	
Spiroxamine	ND	0.1	0.929	1.00	92.9	50 - 150	
Tebuconazole	ND	0.1	1.07	1.00	107	50 - 150	
Thiacloprid	ND	0.1	0.925	1.00	92.5	50 - 150	
Thiamethoxam	ND	0.1	0.953	1.00	95.3	50 - 150	
Trifloxystrobin	ND	0.1	0.971	1.00	97.1	50 - 150	

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Sample Type: Extracts Sample Date: 3/23/2020 Analysis Date: 3/24/2020 Report Date: 3/26/2020 Metrc Batch ID:

1A4010300016315000023575 Metrc Sample ID: 1A4010300016315000023578 Harvest/Process Date: 3/21/2020 Report ID: LS-200326-10 Sample Plan ID:SP-200323-6-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Solvents Analysis Date: 3/24/2020 Solvents Batch ID: RES_032420A **Method**: EPA 5021A **Unit:** μg/g (ppm) Pass ⊘

Analyte	MSD-FZM-NRS	XZR-NXX-XNN	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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Farmer's Friend Extracts 6451 NE Colwood Wy Portland, OR 97218 503-442-8653

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Residual Solvents

Quality Control Data

Sample Type: Extracts Sample Date: 3/23/2020 Analysis Date: 3/24/2020 Report Date: 3/26/2020 Metrc Batch ID:

1A4010300016315000023575 Metrc Sample ID: 1A4010300016315000023578 Harvest/Process Date: 3/21/2020 Report ID: LS-200326-10 Sample Plan ID:SP-200323-6-B Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Solvents QC Analysis Date: 3/24/2020 Solvents QC Batch ID: RES_032420A Method: EPA 5021A Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
1,4-Dioxane	ND	50.0	843	1000	84.3	70 - 130	
2-Butanol	ND	250.0	897	1000	89.7	70 - 130	
2-Ethoxyethanol	ND	50.0	831	1000	83.1	70 - 130	
Acetone	ND	250.0	798	1000	79.8	70 - 130	
Acetonitrile	ND	50.0	895	1000	89.5	70 - 130	
Benzene	ND	2.0	19.7	20.0	98.6	70 - 130	
Butanes	ND	250.0	1640	2000	81.8	70 - 130	
Cumene	ND	50.0	859	1000	85.9	70 - 130	
Cyclohexane	ND	50.0	787	1000	78.7	70 - 130	
Ethyl Acetate	ND	250.0	843	1000	84.3	70 - 130	
Ethyl Ether	ND	250.0	744	1000	74.4	70 - 130	
Ethylene Glycol	ND	250.0	875	1000	87.5	70 - 130	
Ethylene Oxide	ND	50.0	789	1000	78.9	70 - 130	
Heptane	ND	250.0	777	1000	77.7	70 - 130	
Hexanes	ND	50.0	4030	5000	80.7	70 - 130	
Isopropanol (2-Propanol)	ND	50.0	893	1000	89.3	70 - 130	
Isopropyl Acetate	ND	250.0	870	1000	87.0	70 - 130	
Methanol	ND	250.0	724	1000	72.4	70 - 130	
Dichloromethane	ND	50.0	819	1000	81.9	70 - 130	
Pentanes	ND	250.0	2430	3000	80.9	70 - 130	
Propane	ND	250.0	772	1000	77.2	70 - 130	
Tetrahydrofuran	ND	50.0	844	1000	84.4	70 - 130	
Toluene	ND	50.0	832	1000	83.2	70 - 130	
Xylenes	ND	50.0	3430	4000	85.8	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
- B Analyte found in sample and associated blank
- C 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
- M Manual integration
- PS Peaks split
- HB 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