

# 507 - Future RCO 9.29.20

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

**Sample Type:** Extracts  
**Sample Date:** 9/30/2020  
**Analysis Date:** 9/30/2020  
**Report Date:** 10/2/2020

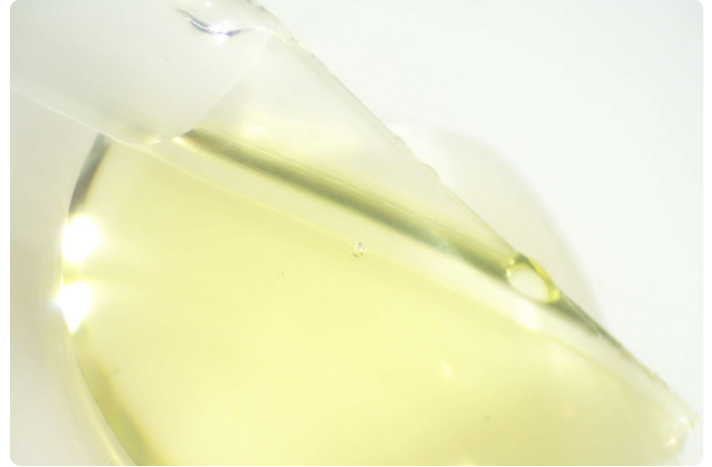
**Metric Batch ID:**  
 1A4010300016315000027218  
**Metric Sample ID:**  
 1A4010300016315000027225

**Harvest/Process Date:** 9/29/2020  
**Report ID:** LS-201002-20  
**Sample Plan ID:** SP-200930-5-A  
**Sample Procedure:** 160721\_LAB-SOP\_SampleCollection-v008

## Potency

Potency Analysis Date: 10/1/2020  
 Potency Batch ID: CAN\_100120A  
 Potency Method: JAOAC 2015.1




**69.8%** Total THC  
**0.0812%** Total CBD



Samples: PBM-JWM-DTB, XWC-HXT-RXN

Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	Unit: %
<b>Δ9THC</b>	Delta-9 Tetrahydrocannabinol	0.16	0.655	69.3	69.8	69.6	
<b>THCA</b>	Tetrahydrocannabinolic acid	0.16	47.8	<LOQ	0.261	0.261	
<b>CBD</b>	Cannabidiol	0.16	1.49	ND	0.162	0.0812	
<b>CBDA</b>	Cannabidiolic acid	0.16	0.00	ND	ND	ND	
<b>Δ8THC</b>	Delta-8 Tetrahydrocannabinol*	0.16	0.00	ND	ND	ND	
<b>THCV</b>	Tetrahydrocannabivarin*	0.16	14.0	1.06	1.22	1.14	
<b>CBG</b>	Cannabigerol*	0.16	12.1	1.57	1.78	1.68	
<b>CBGA</b>	Cannabigerolic acid*	0.16	0.00	ND	<LOQ	<LOQ	
<b>CBC</b>	Cannabichromene*	0.16	1.76	1.19	1.22	1.20	
<b>CBCA</b>	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
<b>CBN</b>	Cannabinol	0.16	1.06	0.648	0.654	0.651	
<b>Total THC</b>	Δ9THC + (THCA × 0.877)		0.982	69.3	70.0	69.8	
<b>Total CBD</b>	CBD + (CBDA × 0.877)		1.49	ND	0.162	0.0812	
<b>Total</b>			0.238	73.8	75.1	74.6	

## Compliance

<b>Pesticides</b>	Within limits	Analysis Date: 10/1/2020	Pass 
<b>Solvents</b>	Within limits	Analysis Date: 10/2/2020	Pass 
<b>Potency</b>	Within limits	Analysis Date: 10/1/2020	Pass 

  
 Bryce Kidd, Ph.D.  
 Lab Director

  
 Aaron Troyer  
 Chief Science Officer



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**Terpene Analysis Date:** 9/30/2020  
**Terpene Batch ID:** TRP\_093020A

**Method:** JAOAC 2015.1  
**Unit:** %

Analyte	Avg.	Notes	Analyte	Avg.	Notes
β-Caryophyllene	2.39%		Guaiol	ND	
Humulene	0.812%		Isoborneol	ND	
Limonene	0.230%		Isopulegol	ND	
α-Bisabolol	0.183%		Nerol	ND	
Linalool	0.120%		Pulegone	ND	
Selinadiene	0.0892%		Sabinene Hydrate	ND	
α-Terpineol	0.0814%		Valencene	ND	
β-Myrcene	0.0445%		cis-Nerolidol	ND	
α-Cedrene	0.0275%		trans-Nerolidol	ND	
β-Pinene	0.0258%		α-Ocimene	ND	
Sabinene	0.0212%		α-Phellandrene	ND	
Terpinolene	0.0176%		β-Farnesene 1	ND	
Eucalyptol	0.0107%		β-Farnesene 2	ND	
α-Pinene	0.00925%		γ-Terpineol	ND	
β-Ocimene	0.00643%		<b>Total</b>	<b>4.08%</b>	
Camphene	0.00394%				
γ-Terpinene	0.00376%				
α-Terpinene	0.00361%				
Fenchone	0.00349%				
Δ3-Carene	0.00255%				
Azulene	ND				
Borneol	ND				
Camphore	ND				
Caryophyllene Oxide	ND				
Cedrol	ND				
Cymene	ND				
Fenchol	ND				
Geraniol	ND				
Geranyl Acetate	ND				

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## Pesticides Sample Data

Pesticides Analysis Date: 10/1/2020  
 Pesticides Batch ID: PST\_100120A

Method: EN 15662  
 Unit: µg/g (ppm)

Pass 

Analyte	XWC-HXT-RXN	PBM-JWM-DTB	Limits	LOQ	Notes	Status	Analyte	XWC-HXT-RXN	PBM-JWM-DTB	Limits	LOQ	Notes	Status
Abamectin	ND	ND	0.5	0.1		Pass	Metalaxyl	ND	ND	0.2	0.1		Pass
Acephate	ND	ND	0.4	0.1		Pass	Methiocarb	ND	ND	0.2	0.1		Pass
Acequinocyl	ND	ND	2.0	1.5		Pass	Methomyl	ND	ND	0.4	0.1		Pass
Acetamiprid	ND	ND	0.2	0.1		Pass	Methyl Parathion	ND	ND	0.2	0.2		Pass
Aldicarb	ND	ND	0.4	0.1		Pass	MGK-264	ND	ND	0.2	0.2		Pass
Azoxystrobin	ND	ND	0.2	0.1		Pass	Myclobutanil	ND	ND	0.2	0.1		Pass
Bifenazate	ND	ND	0.2	0.1		Pass	Naled	ND	ND	0.5	0.2		Pass
Bifenthrin	ND	ND	0.2	0.1		Pass	Oxamyl	ND	ND	1.0	0.1		Pass
Boscalid	ND	ND	0.4	0.1		Pass	Paclobutrazol	ND	ND	0.4	0.1		Pass
Carbaryl	ND	ND	0.2	0.1		Pass	Permethrins	ND	ND	0.2	0.1		Pass
Carbofuran	ND	ND	0.2	0.1		Pass	Phosmet	ND	ND	0.2	0.1		Pass
Chlorantraniliprole	ND	ND	0.2	0.1		Pass	Piperonyl Butoxide	ND	ND	2.0	1.0		Pass
Chlorfenapyr	ND	ND	1.0	0.1		Pass	Prallethrin	ND	ND	0.2	0.1		Pass
Chlorpyrifos	ND	ND	0.2	0.1		Pass	Propiconazole	ND	ND	0.4	0.1		Pass
Clofentezine	ND	ND	0.2	0.1		Pass	Propoxur	ND	ND	0.2	0.1		Pass
Cyfluthrin	ND	ND	1.0	0.5		Pass	Pyrethrins	ND	ND	1.0	0.5		Pass
Cypermethrin	ND	ND	1.0	0.1		Pass	Pyridaben	ND	ND	0.2	0.1		Pass
Daminozide	ND	ND	1.0	0.5		Pass	Spinosad	ND	ND	0.2	0.1		Pass
Diazinon	ND	ND	0.2	0.1		Pass	Spiromesifen	ND	ND	0.2	0.1		Pass
Dichlorvos (DDVP)	ND	ND	1.0	0.5		Pass	Spirotetramat	ND	ND	0.2	0.1		Pass
Dimethoate	ND	ND	0.2	0.1		Pass	Spiroxamine	ND	ND	0.4	0.1		Pass
Ethoprophos	ND	ND	0.2	0.1		Pass	Tebuconazole	ND	ND	0.4	0.1		Pass
Etofenprox	ND	ND	0.4	0.1		Pass	Thiacloprid	ND	ND	0.2	0.1		Pass
Etoxazole	ND	ND	0.2	0.1		Pass	Thiamethoxam	ND	ND	0.2	0.1		Pass
Fenoxycarb	ND	ND	0.2	0.1		Pass	Trifloxystrobin	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							

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 1A4010300016315000027218  
**Metric Sample ID:**  
 1A4010300016315000027225

**Harvest/Process Date:** 9/29/2020  
**Report ID:** LS-201002-20  
**Sample Plan ID:** SP-200930-5-A  
**Sample Procedure:** 160721\_LAB-SOP\_SampleCollection-v008

## Pesticides Quality Control Data

Pesticides QC Analysis Date: 10/1/2020  
 Pesticides QC Batch ID: PST\_100120A

Method: EN 15662  
 Unit: µg/g (ppm)

Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes	Analyte	Blank	LOQ	LCS	LCS Spike	LCS Rec (%)	Limits (%)	Notes
Abamectin	ND	0.1	0.776	1.00	77.6	50 - 150		Metalaxyl	ND	0.1	0.993	1.00	99.3	50 - 150	
Acephate	ND	0.1	0.907	1.00	90.7	50 - 150		Methiocarb	ND	0.1	0.980	1.00	98.0	50 - 150	
Acequinocyl	ND	1.5	0.755	1.00	75.5	50 - 150		Methomyl	ND	0.1	0.897	1.00	89.7	50 - 150	
Acetamiprid	ND	0.1	0.992	1.00	99.2	50 - 150		Methyl Parathion	ND	0.2	ND	1.00	0.00	30 - 150	ND
Aldicarb	ND	0.1	0.951	1.00	95.1	50 - 150		MGK-264	ND	0.2	0.206	0.600	34.4	50 - 150	LR
Azoxystrobin	ND	0.1	1.04	1.00	104	50 - 150		Myclobutanil	ND	0.1	1.04	1.00	104	50 - 150	
Bifenazate	ND	0.1	1.12	1.00	112	50 - 150		Naled	ND	0.2	0.878	1.00	87.8	50 - 150	
Bifenthrin	ND	0.1	0.868	1.00	86.8	50 - 150		Oxamyl	ND	0.1	0.924	1.00	92.4	50 - 150	
Boscalid	ND	0.1	0.977	1.00	97.7	50 - 150		Paclobutrazol	ND	0.1	0.882	1.00	88.2	50 - 150	
Carbaryl	ND	0.1	0.990	1.00	99.0	50 - 150		Permethrins	ND	0.1	1.02	1.00	102	50 - 150	
Carbofuran	ND	0.1	0.974	1.00	97.4	50 - 150		Phosmet	ND	0.1	1.13	1.00	113	50 - 150	
Chlorantraniliprole	ND	0.1	0.900	1.00	90.0	50 - 150		Piperonyl Butoxide	ND	1.0	0.844	1.00	84.4	50 - 150	
Chlorfenapyr	ND	0.1	0.887	1.00	88.7	50 - 150		Prallethrin	ND	0.1	1.20	1.00	120	50 - 150	
Chlorpyrifos	ND	0.1	0.962	1.00	96.2	50 - 150		Propiconazole	ND	0.1	1.52	1.00	152	50 - 150	ME
Clofentezine	ND	0.1	0.653	1.00	65.3	50 - 150		Propoxur	ND	0.1	0.946	1.00	94.6	50 - 150	
Cyfluthrin	ND	0.5	0.889	1.00	88.9	50 - 150		Pyrethrins	ND	0.5	0.786	1.00	78.6	50 - 150	
Cypermethrin	ND	0.1	1.00	1.00	100	50 - 150		Pyridaben	ND	0.1	0.952	1.00	95.2	50 - 150	
Daminozide	ND	0.5	0.322	1.00	32.2	10 - 150		Spinosad	ND	0.1	0.782	1.00	78.2	50 - 150	
Diazinon	ND	0.1	1.02	1.00	102	50 - 150		Spiromesifen	ND	0.1	1.03	1.00	103	50 - 150	
Dichlorvos (DDVP)	ND	0.5	0.961	1.00	96.1	50 - 150		Spirotetramat	ND	0.1	0.985	1.00	98.5	50 - 150	
Dimethoate	ND	0.1	0.917	1.00	91.7	50 - 150		Spiroxamine	ND	0.1	0.808	1.00	80.8	50 - 150	
Ethoprophos	ND	0.1	1.03	1.00	103	50 - 150		Tebuconazole	ND	0.1	1.35	1.00	135	50 - 150	
Etofenprox	ND	0.1	0.897	1.00	89.7	50 - 150		Thiacloprid	ND	0.1	1.07	1.00	107	50 - 150	
Etoxazole	ND	0.1	0.982	1.00	98.2	50 - 150		Thiamethoxam	ND	0.1	1.03	1.00	103	50 - 150	
Fenoxycarb	ND	0.1	1.04	1.00	104	50 - 150		Trifloxystrobin	ND	0.1	0.912	1.00	91.2	50 - 150	
Fenpyroximate	ND	0.1	0.846	1.00	84.6	50 - 150									
Fipronil	ND	0.1	1.02	1.00	102	50 - 150									
Flonicamid	ND	0.1	0.966	1.00	96.6	50 - 150									
Fludioxonil	ND	0.1	2.58	1.00	258	50 - 150	HB								
Hexythiazox	ND	0.1	0.871	1.00	87.1	50 - 150									
Imazalil	ND	0.1	1.10	1.00	110	50 - 150									
Imidacloprid	ND	0.1	0.959	1.00	95.9	50 - 150									
Kresoxim-methyl	ND	0.1	1.06	1.00	106	50 - 150									
Malathion	ND	0.1	1.05	1.00	105	50 - 150									

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**Sample Procedure:** 160721\_LAB-SOP\_SampleCollection-v008

## Residual Solvents Sample Data

Solvents Analysis Date: 10/2/2020  
 Solvents Batch ID: RES\_100120B

Method: EPA 5021A  
 Unit: µg/g (ppm)

Pass 

Analyte	XWC-HXT-RXN	PBM-JWM-DTB	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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## Residual Solvents Quality Control Data

Solvents QC Analysis Date: 10/2/2020  
 Solvents QC Batch ID: RES\_100120B

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	888	1000	88.8	70 - 130	
2-Ethoxyethanol	ND	50.0	1180	1000	118	70 - 130	
Acetone	ND	250.0	1130	1000	113	70 - 130	
Acetonitrile	ND	50.0	1050	1000	105	70 - 130	
Benzene	ND	2.0	21.1	20.0	106	70 - 130	
Butanes	ND	250.0	1810	2000	90.7	70 - 130	
Cumene	ND	50.0	954	1000	95.4	70 - 130	
Cyclohexane	ND	50.0	1070	1000	107	70 - 130	
Ethyl Acetate	ND	250.0	886	1000	88.6	70 - 130	
Ethyl Ether	ND	250.0	1200	1000	120	70 - 130	
Ethylene Glycol	ND	250.0	1170	1000	117	70 - 130	
Ethylene Oxide	ND	50.0	894	1000	89.4	70 - 130	
Heptane	ND	250.0	891	1000	89.1	70 - 130	
Hexanes	ND	50.0	5030	5000	101	70 - 130	
Isopropanol (2-Propanol)	ND	50.0	985	1000	98.5	70 - 130	
Isopropyl Acetate	ND	250.0	917	1000	91.7	70 - 130	
Methanol	ND	250.0	1110	1000	111	70 - 130	
Dichloromethane	ND	50.0	895	1000	89.5	70 - 130	
Pentanes	ND	250.0	2890	3000	96.2	70 - 130	
Propane	ND	250.0	1030	1000	103	70 - 130	
Tetrahydrofuran	ND	50.0	928	1000	92.8	70 - 130	
Toluene	ND	50.0	1070	1000	107	70 - 130	
Xylenes	ND	50.0	4430	4000	111	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 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