

info@lightscale.com ORELAP #4112 OLCC #010-1003340D344

### 325 - Kimbo Kush RSO 12.22.19

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

Metrc Batch ID: 1A4010300016315000020510 Metrc Sample ID: 1A4010300016315000020594

Harvest/Process Date: 12/22/2019 Report ID:

LS-200107-4

#### Potency

Potency Analysis Date: 1/6/2020 Potency Batch ID: CAN\_010620D Potency Method: JAOAC 2015.1

81.5%	Total THC
0.200%	Total CBD
Samples, IDW, VMD, YOW, MYW, ECD, DZY	



Samples: JPW-XMD-XCW, MXW-FGD-RZX

Analyte	Description	LOQ	RPD	Min.	Max.	Avg.	
∆9тнс	Delta-9 Tetrahydrocannabinol	0.16	0.00343	81.5	81.6	81.5	
ГНСА	Tetrahydrocannabinolic acid	0.16	0.00	ND	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
BD	Cannabidiol	0.16	11.2	0.189	0.212	0.200	•
BDA	Cannabidiolic acid	0.16	0.00	ND	<l0q< td=""><td><l0q< td=""><td></td></l0q<></td></l0q<>	<l0q< td=""><td></td></l0q<>	
8THC	Delta-8 Tetrahydrocannabinol*	0.16	0.00	ND	ND	ND	
нси	Tetrahydrocannabivarin*	0.16	6.17	1.00	1.06	1.03	•
BG	Cannabigerol*	0.16	14.7	1.29	1.49	1.39	•
BGA	Cannabigerolic acid*	0.16	7.86	0.177	0.192	0.184	•
BC	Cannabichromene*	0.16	10.2	1.26	1.40	1.33	•
BCA	Cannabichromenic acid*	0.16	0.00	ND	ND	ND	
BN	Cannabinol	0.16	17.7	0.748	0.893	0.821	•
otal THC	Δ9THC + (THCA × 0.877)		0.00343	81.5	81.6	81.5	
otal CBD	CBD + (CBDA × 0.877)		11.2	0.189	0.212	0.200	•
Total			0.0200	86.2	86.8	86.5	

### 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 ⊘

ive Mat Bryce Kidd, Ph.D.

Lab Director

Aaron Troyer

Chief Science Officer



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Sample Type: Extracts

Sample Date: 12/30/2019

Analysis Date: 1/2/2020

Report Date: 1/7/2020

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#### **Terpenes\*** Sample Data

Analyte	Avg.	Notes
β-Caryophyllene	0.666%	
β-Farnesene 2	0.218%	
Humulene	0.193%	
Linalool	0.0373%	
a-Terpineol	0.0352%	
Terpinolene	0.0244%	
Selinadiene	0.0179%	
α-Bisabolol	0.0100%	
β-Ocimene	0.00238%	
Limonene	0.000515%	
β-Myrcene	0.000340%	
Azulene	ND	
Borneol	ND	
Camphene	ND	
Camphore	ND	
Caryophyllene Oxide	ND	
Cedrol	ND	
Cymene	ND	
Eucalyptol	ND	
Fenchol	ND	
Fenchone	ND	
Geraniol	ND	
Geranyl Acetate	ND	
Guaiol	ND	
Isoborneol	ND	
Isopulegol	ND	
Nerol	ND	
Pulegone	ND	
Sabinene	ND	

Analyte	Avg.	Notes
Sabinene Hydrate	ND	
Valencene	ND	
cis-Nerolidol	ND	
trans-Nerolidol	ND	
∆3-Carene	ND	
a-Cedrene	ND	
α-Ocimene	ND	
α-Phellandrene	ND	
a-Pinene	ND	
a-Terpinene	ND	
β-Farnesene 1	ND	
β-Pinene	ND	
γ-Terpinene	ND	
γ-Terpineol	ND	
Total	1.20%	

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Harvest/Process Date: 12/22/2019 Report ID:

LS-200107-4

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

1A4010300016315000020510

1A4010300016315000020594

Metrc Batch ID:

Metrc Sample ID:





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# 325 - Kimbo Kush RSO 12.22.19

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

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**Pesticides** 

Sample Data

Sample Type: Extracts Sample Date: 12/30/2019 Analysis Date: 1/2/2020 Report Date: 1/7/2020 Metrc Batch ID: 1A4010300016315000020510

Metrc Sample ID:

Harvest/Process Date: 12/22/2019 Report ID:

#### LS-200107-4

Pesticides Analysis Date: 1/3/2020 Pesticides Batch ID: PST\_010320A

1A4010300016315000020594

**Method**: EN 15662 **Unit:** μg/g (ppm) Pass 🥪

Analyte	MXW-FGD-RZX	JPW-XMD-XCW	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	MXW-FGD-RZX	JPW-XMD-XCW	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: 12/30/2019 Analysis Date: 1/2/2020 Report Date: 1/7/2020 Metrc Batch ID: 1A4010300016315000020510 Metrc Sample ID: 1A4010300016315000020594

Pesticides QC Analysis Date: 1/3/2020 Pesticides QC Batch ID: PST\_010320A LS-200107-4

Report ID:

Method: EN 15662

Unit: µg/g (ppm)

Harvest/Process Date: 12/22/2019

Pesticides Quality Control Data

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	
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	

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	
Oxamyl	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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### 325 - Kimbo Kush RSO 12.22.19

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



Solvents Analysis Date: 1/3/2020

Harvest/Process Date: 12/22/2019 Report ID:

### LS-200107-4

Method: EPA 5021A Pass ⊘ **Residual Solvents** Solvents Batch ID: RES 010220A Unit: µg/g (ppm) Sample Data Analyte MXW-FGD-RZX JPW-XMD-XCW RPD (%) Limits LOQ Notes Status 1,4-Dioxane 0.00 380.0 50.0 ND ND Pass 2-Butanol ND ND 0.00 5000.0 250.0 Pass 2-Ethoxvethanol ND ND 0.00 160.0 50.0 Pass Acetone <L0Q <L0Q 0.00 5000.0 250.0 Pass Acetonitrile ND ND 0.00 410.0 50.0 Pass 0.00 2.0 Benzene ND ND 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 0.00 5000 0 250.0 Pass ND ND 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 0.00 5000 0 250.0 Heptane ND ND Pass Hexanes ND ND 0.00 290.0 50.0 Pass Isopropanol (2-Propanol) <L0Q <L0Q 0.00 5000.0 50.0 Pass Isopropyl Acetate 0.00 5000.0 250.0 ND ND 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 5000.0 250.0 Propage ND ND 0.00 Pass Tetrahydrofuran ND ND 0.00 720.0 50.0 Pass Toluene ND ND 0.00 890.0 50.0 Pass Pass Xylenes ND ND 0.00 2170.0 50.0



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# 325 - Kimbo Kush RSO 12.22.19

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

Residual Solvents

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

Metrc Batch ID: 1A4010300016315000020510 Metrc Sample ID: 1A4010300016315000020594 Harvest/Process Date: 12/22/2019 Report ID:

LS-200107-4

Quality Contro	l Data			Solvents QC Batch ID:
Analyte	Blank	LOQ	LCS	LCS Spike
1,4-Dioxane	ND	50.0	1010	1000
2-Butanol	ND	250.0	948	1000
2-Ethoxyethanol	ND	50.0	917	1000
Acetone	ND	250.0	942	1000
Acetonitrile	ND	50.0	932	1000

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	



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OLCC #010-1003340D344

ORELAP #4112

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: 1A4010300016315000020510 Metrc Sample ID: 1A4010300016315000020594 Harvest/Process Date: 12/22/2019 Report ID:

LS-200107-4

#### **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