

**Certificate of Analysis**

**Testing for Compliance**

Sample ID: EFF4054  
 Report ID: TR-EFF4054

Report Date: 03/29/2020

Test RFID: 1A401030000F105000004054

**Client Name:**  
 Epic Family Farms

**License No:**  
 020-10041847FC2

<p><b>Date Sampled:</b> 03/25/2020</p> <p><b>Sampled by:</b> Yujing Wen</p> <p><b>Sample Name:</b> Kimbo Kush (Buds)</p> <p><b>Sample Type:</b> Usable marijuana</p> <p><b>Harvest Time:</b> 10/12/2019</p> <p><b>Sample Weight:</b> 11.96 g</p>	<p><b>Description of the sample, sampling condition. Environmental conditions that may impact interpretation of the test result:</b></p> <p>Dry usable marijuana. Sample appeared normal. There were no any environmental conditions that may impact interpretation of the test result.</p>
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**Summary of Test Results**

Items	Value	Pass/Fail
<b>Total THC:</b>	22.0%	N/A
<b>Total CBD:</b>	< LOQ	N/A
<b>Water Activity:</b>	0.490 at 18.1 °C	Pass
<b>Moisture Content:</b>	10.9%	Pass
<b>Pesticides:</b>	< LOQ	Pass
<b>Total Terpene:</b>	3.31%	N/A

State limit for water activity is 0.65 and 15% for moisture content.

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## Moisture Content Analysis

Testing method: SOP-004 Analyzed by: Yujing Wen Analyzed date: 03/28/2020

Batch ID: MC032820

Analyte	Result
Water	10.9%

## Water Activity Analysis

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 03/26/2020

Batch ID: WA032620

Analyte	Result	Temperature
Water Activity	0.490	18.1 °C

## Potency Analysis

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 03/26/2020

Batch ID: PO032620

Analyte	Result, %	LOQ, %
THCV	< LOQ	0.1
CBD	< LOQ	0.1
CBG	< LOQ	0.1
CBDA	< LOQ	0.1
CBN	0.3	0.1
Delta-9 THC	0.9	0.1
Delta-8 THC	< LOQ	0.1
CBC	< LOQ	0.1
THCA	24.1	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	22.0	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	< LOQ	N/A
Total Cannabinoids:	25.3	N/A

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**Pesticides Analysis (Unit: ppm)**

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 03/27/2020

Batch ID: PE032720

Analyte	Result	LOQ	State Action Level
Abamectin	< LOQ	0.25	0.5
Acephate	< LOQ	0.20	0.4
Acequinocyl	< LOQ	1.00	2.0
Acetamiprid	< LOQ	0.10	0.2
Aldicarb	< LOQ	0.20	0.4
Azoxystrobin	< LOQ	0.10	0.2
Bifenazate	< LOQ	0.10	0.2
Bifenthrin	< LOQ	0.10	0.2
Boscalid	< LOQ	0.20	0.4
Carbaryl	< LOQ	0.10	0.2
Carbofuran	< LOQ	0.10	0.2
Chloranthraniliprole	< LOQ	0.10	0.2
Chlorfenapyr	< LOQ	1.00	1.0
Chlorpyrifos	< LOQ	0.10	0.2
Clofentezine	< LOQ	0.10	0.2
Cyfluthrin	< LOQ	0.50	1.0
Cypermethrin	< LOQ	0.50	1.0
Daminozide	< LOQ	0.50	1.0
DDVP (Dichlorvos)	< LOQ	0.50	1.0
Diazinon	< LOQ	0.10	0.2
Dimethoate	< LOQ	0.10	0.2
Ethoprophos	< LOQ	0.10	0.2
Etofenprox	< LOQ	0.20	0.4
Etoxazole	< LOQ	0.10	0.2
Fenoxycarb	< LOQ	0.10	0.2
Fenpyroximate	< LOQ	0.20	0.4
Fipronil	< LOQ	0.20	0.4
Flonicamid	< LOQ	0.50	1.0
Fludioxonil	< LOQ	0.20	0.4
Hexythiazox	< LOQ	0.50	1.0

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Imazalil	< LOQ	0.10	0.2
Imidacloprid	< LOQ	0.20	0.4
Kresoxim-Methyl	< LOQ	0.20	0.4
Malathion	< LOQ	0.10	0.2
Metalaxyl	< LOQ	0.10	0.2
Methiocarb	< LOQ	0.10	0.2
Methomyl	< LOQ	0.20	0.4
Methyl_Parathion	< LOQ	0.20	0.2
MGK-264	< LOQ	0.10	0.2
Myclobutanil	< LOQ	0.10	0.2
NALED (Dibrom)	< LOQ	0.25	0.5
Oxamyl	< LOQ	0.50	1.0
Paclobutrazol	< LOQ	0.20	0.4
Permethrins	< LOQ	0.10	0.2
Phosmet	< LOQ	0.10	0.2
Piperonyl_Butoxide	< LOQ	1.00	2.0
Prallethrin	< LOQ	0.10	0.2
Propiconazole	< LOQ	0.20	0.4
Propoxur	< LOQ	0.10	0.2
Pyrethrin	< LOQ	0.50	1.0
Pyridaben	< LOQ	0.10	0.2
Spinosad	< LOQ	0.10	0.2
Spiromesifen	< LOQ	0.10	0.2
Spirotetramat	< LOQ	0.10	0.2
Spiroxamine	< LOQ	0.20	0.4
Tebuconazole	< LOQ	0.20	0.4
Thiacloprid	< LOQ	0.10	0.2
Thiamethoxam	< LOQ	0.10	0.2
Trifloxystrobin	< LOQ	0.10	0.2

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Terpene Analysis

Testing method: SOP-011 Analyzed by: Yujing Wen Analyzed date: 03/26/2020

Analyte	Result, %	LOQ, %
<b>Monoterpenes</b>		
Alpha-Pinene	0.02	0.01
Camphene	< LOQ	0.01
Beta-Myrcene	0.45	0.01
Beta-Pinene	0.04	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.44	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.37	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	0.02	0.01
Linalool	0.29	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
<b>Sesquiterpenes</b>		
Beta-Caryophyllene	1.10	0.01
alpha-Humulene	0.44	0.01
Nerolidol	0.07	0.01
Guaiol	< LOQ	0.01
alpha-Bisabolol	0.07	0.01
<b>Total Terpenes</b>	3.31	N/A

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**Quality Control Results**

**Potency Analysis**

Test Method: SOP-002 by LC/MS/MS

Blank: MBLK-PO032620		Date analyzed: 03/26/2020
Analyte	Result, %	LOQ, %
THCV	< LOQ	0.1
CBD	< LOQ	0.1
CBG	< LOQ	0.1
CBDA	< LOQ	0.1
CBN	< LOQ	0.1
Delta-9 THC	< LOQ	0.1
Delta-8 THC	< LOQ	0.1
CBC	< LOQ	0.1
THCA	< LOQ	0.1

LCS: LCS- PO032620		Date analyzed: 03/26/2020
Analyte	% Recovery	% Recovery Criteria
THCV	115	70-130
CBD	105	70-130
CBG	100	70-130
CBDA	104	70-130
CBN	100	70-130
Delta-9 THC	101	70-130
Delta-8 THC	109	70-130
CBC	102	70-130
THCA	104	70-130

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Quality Control Results

Pesticide Analysis (Unit: ppm)

Testing method: SOP-010 by LC/MS/MS

Blank: MBLK-PE032720		Date analyzed: 03/27/2020	
Analyte	Result	LOQ	State Action Level
Abamectin	< LOQ	0.25	0.5
Acephate	< LOQ	0.20	0.4
Acequinocyl	< LOQ	1.00	2.0
Acetamiprid	< LOQ	0.10	0.2
Aldicarb	< LOQ	0.20	0.4
Azoxystrobin	< LOQ	0.10	0.2
Bifenazate	< LOQ	0.10	0.2
Bifenthrin	< LOQ	0.10	0.2
Boscalid	< LOQ	0.20	0.4
Carbaryl	< LOQ	0.10	0.2
Carbofuran	< LOQ	0.10	0.2
Chloranthraniliprole	< LOQ	0.10	0.2
Chlorfenapyr	< LOQ	1.00	1.0
Chlorpyrifos	< LOQ	0.10	0.2
Clofentezine	< LOQ	0.10	0.2
Cyfluthrin	< LOQ	0.50	1.0
Cypermethrin	< LOQ	0.50	1.0
Daminozide	< LOQ	0.50	1.0
DDVP (Dichlorvos)	< LOQ	0.50	1.0
Diazinon	< LOQ	0.10	0.2
Dimethoate	< LOQ	0.10	0.2
Ethoprophos	< LOQ	0.10	0.2
Etofenprox	< LOQ	0.20	0.4
Etoxazole	< LOQ	0.10	0.2
Fenoxycarb	< LOQ	0.10	0.2
Fenpyroximate	< LOQ	0.20	0.4

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Fipronil	< LOQ	0.20	0.4
Flonicamid	< LOQ	0.50	1.0
Fludioxonil	< LOQ	0.20	0.4
Hexythiazox	< LOQ	0.50	1.0
Imazalil	< LOQ	0.10	0.2
Imidacloprid	< LOQ	0.20	0.4
Kresoxim-Methyl	< LOQ	0.20	0.4
Malathion	< LOQ	0.10	0.2
Metalaxyl	< LOQ	0.10	0.2
Methiocarb	< LOQ	0.10	0.2
Methomyl	< LOQ	0.20	0.4
Methyl_Parathion	< LOQ	0.20	0.2
MGK-264	< LOQ	0.10	0.2
Myclobutanil	< LOQ	0.10	0.2
NALED (Dibrom)	< LOQ	0.25	0.5
Oxamyl	< LOQ	0.50	1.0
Paclobutrazol	< LOQ	0.20	0.4
Permethrins	< LOQ	0.10	0.2
Phosmet	< LOQ	0.10	0.2
Piperonyl_Butoxide	< LOQ	1.00	2.0
Prallethrin	< LOQ	0.10	0.2
Propiconazole	< LOQ	0.20	0.4
Propoxur	< LOQ	0.10	0.2
Pyrethrin	< LOQ	0.50	1.0
Pyridaben	< LOQ	0.10	0.2
Spinosad	< LOQ	0.10	0.2
Spiromesifen	< LOQ	0.10	0.2
Spirotetramat	< LOQ	0.10	0.2
Spiroxamine	< LOQ	0.20	0.4
Tebuconazole	< LOQ	0.20	0.4
Thiacloprid	< LOQ	0.10	0.2
Thiamethoxam	< LOQ	0.10	0.2
Trifloxystrobin	< LOQ	0.10	0.2

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LCS: LCS-PE032720		Date analyzed: 03/27/2020		
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	94	10-190	0.25	0.5
Acephate	108	30-170	0.20	0.4
Acequinocyl	123	10-190	1.00	2.0
Acetamiprid	140	30-170	0.10	0.2
Aldicarb	113	30-170	0.20	0.4
Azoxystrobin	79	30-170	0.10	0.2
Bifenazate	56	10-190	0.10	0.2
Bifenthrin	145	30-170	0.10	0.2
Boscalid	94	30-170	0.20	0.4
Carbaryl	103	30-170	0.10	0.2
Carbofuran	135	30-170	0.10	0.2
Chloranthraniliprole	130	30-170	0.10	0.2
Chlorfenapyr	38	10-190	1.00	1.0
Chlorpyrifos	86	30-170	0.10	0.2
Clofentezine	81	30-170	0.10	0.2
Cyfluthrin	53	30-170	0.50	1.0
Cypermethrin	56	30-170	0.50	1.0
Daminozide	109	30-170	0.50	1.0
DDVP (Dichlorvos)	40	30-170	0.50	1.0
Diazinon	113	30-170	0.10	0.2
Dimethoate	114	30-170	0.10	0.2
Ethoprophos	129	30-170	0.10	0.2
Etofenprox	95	30-170	0.20	0.4
Etoxazole	59	30-170	0.10	0.2
Fenoxycarb	63	30-170	0.10	0.2
Fenpyroximate	142	30-170	0.20	0.4
Fipronil	96	10-190	0.20	0.4
Fonicamid	53	10-190	0.50	1.0
Fludioxonil	73	10-190	0.20	0.4
Hexythiazox	71	30-170	0.50	1.0
Imazalil	118	30-170	0.10	0.2
Imidacloprid	132	30-170	0.20	0.4

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Kresoxim-Methyl	47	30-170	0.20	0.4
Malathion	96	30-170	0.10	0.2
Metalaxyl	86	30-170	0.10	0.2
Methiocarb	121	30-170	0.10	0.2
Methomyl	104	30-170	0.20	0.4
Methyl_Parathion	107	10-190	0.20	0.2
MGK-264	102	10-190	0.10	0.2
Myclobutanil	147	30-170	0.10	0.2
NALED (Dibrom)	52	30-170	0.25	0.5
Oxamyl	130	10-190	0.50	1.0
Paclobutrazol	59	30-170	0.20	0.4
Permethrins	122	30-170	0.10	0.2
Phosmet	38	30-170	0.10	0.2
Piperonyl_Butoxide	76	30-170	1.00	2.0
Prallethrin	63	30-170	0.10	0.2
Propiconazole	66	30-170	0.20	0.4
Propoxur	90	30-170	0.10	0.2
Pyrethrin	61	30-170	0.50	1.0
Pyridaben	51	30-170	0.10	0.2
Spinosad	53	10-190	0.10	0.2
Spiromesifen	88	30-170	0.10	0.2
Spirotetramat	83	30-170	0.10	0.2
Spiroxamine	127	30-170	0.20	0.4
Tebuconazole	60	30-170	0.20	0.4
Thiacloprid	108	30-170	0.10	0.2
Thiamethoxam	113	30-170	0.10	0.2
Trifloxystrobin	104	30-170	0.10	0.2

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**Attachments:**

**Note:** *if answer is Yes for following items, statement is attached. Otherwise, no attachment.*

Deviation occurred in test? <b>Answer:</b> No	Opinion and interpretation provided? <b>Answer:</b> No
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**Comments:** "N/A" if there is no comment made  
N/A

Shuguo Ma, Ph.D, Quality Manager

Signature: 

Date: 29Mar2020

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