

Certificate of Analysis

Sample ID: EFF0760

Report ID: TR- EFF0760

Testing for Compliance

Report Date: 12/17/2018

Report Expiry: 12/17/2019

Test RFID: 1A401030000F105000000760

Client Name:

Epic Family Farms

License No:

020-10041847FC2

Date Sampled: 12/12/2018**Sampled by:** Yujing Wen**Sample Name:** Lemon Kush (buds)**Sample Type:** Usable marijuana**Harvest Time:** 10/22/2018**Sample Weight:** 34.88 g**Description of the sample, sampling condition.
Environmental conditions that may impact
interpretation of the test result:**Dry usable marijuana. Sample appeared normal.
There were no any environmental conditions that
may impact interpretation of the test result.**Summary of Test Results**

Items	Value	Pass/Fail
Total THC:	25.8%	N/A
Total CBD:	< LOQ	N/A
Water Activity:	0.479 at 20.1 °C	Pass
Moisture Content:	10.2%	N/A
Pesticides:	< LOQ	Pass
Total Terpene:	2.03%	N/A

State limit for water activity is 0.65.

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Moisture Content Analysis

Testing method: SOP-004 Analyzed by: Yujing Wen Analyzed date: 12/15/2018

Batch ID: MC121518

Analyte	Result
Water	10.2%

Water Activity Analysis

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 12/15/2018

Batch ID: WA121518

Analyte	Result	Temperature
Water Activity	0.479	20.1 °C

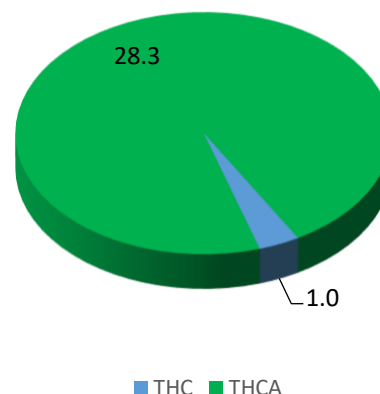
Potency Analysis

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 12/14/2018

Batch ID: PO121418

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	1.0	0.1
Delta-8 THC	< LOQ	0.1
CBC	< LOQ	0.1
THCA	28.3	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	25.8	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	< LOQ	N/A
Total Cannabinoids:	29.3	N/A

Cannabinoids Profile



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Pesticides Analysis (Unit: ppm)

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 12/16/2018

Batch ID: PE121618

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

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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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Terpene Analysis

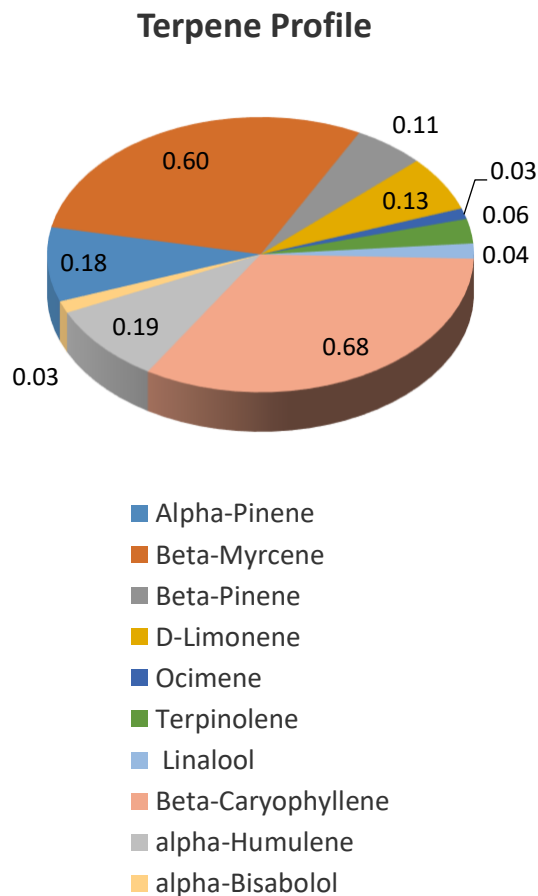
Testing method: SOP-011

Analyzed by: Yujing Wen

Analyzed date: 12/14/2018

Batch ID: TP121418

Analyte	Result, %	LOQ, %
Monoterpenes		
Alpha-Pinene	0.18	0.01
Camphene	< LOQ	0.01
Beta-Myrcene	0.60	0.01
Beta-Pinene	0.11	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.13	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.03	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	0.06	0.01
Linalool	0.04	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
Sesquiterpenes		
Beta-Caryophyllene	0.68	0.01
alpha-Humulene	0.19	0.01
Nerolidol	< LOQ	0.01
Guaiol	< LOQ	0.01
alpha-Bisabolol	0.03	0.01
Total Terpenes	2.03	N/A



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Quality Control Results**Potency Analysis****Test Method:** SOP-002 by LC/MS/MS

Blank: CBLK-PO121418		Date analyzed: 12/14/2018
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- PO121418		Date analyzed: 12/14/2018
Analyte	% Recovery	% Recovery Criteria
THCV	109	70-130
CBD	105	70-130
CBG	99	70-130
CBDA	101	70-130
CBN	106	70-130
Delta-9 THC	99	70-130
Delta-8 THC	85	70-130
CBC	107	70-130
THCA	111	70-130

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Quality Control Results

Pesticides Analysis (Unit: ppm)

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

Blank: MBLK-PE121618		Date analyzed: 12/16/2018	
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- PE121618			Date analyzed: 12/16/2018	
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	82	10-190	0.25	0.5
Acephate	122	30-170	0.20	0.4
Acequinocyl	65	10-190	1.00	2.0
Acetamiprid	89	30-170	0.10	0.2
Aldicarb	76	30-170	0.20	0.4
Azoxystrobin	70	30-170	0.10	0.2
Bifenazate	34	10-190	0.10	0.2
Bifenthrin	76	30-170	0.10	0.2
Boscalid	145	30-170	0.20	0.4
Carbaryl	91	30-170	0.10	0.2
Carbofuran	77	30-170	0.10	0.2
Chloranthraniliprole	73	30-170	0.10	0.2
Chlorfenapyr	139	10-190	1.00	1.0
Chlorpyrifos	55	30-170	0.10	0.2
Clofentezine	146	30-170	0.10	0.2
Cyfluthrin	84	30-170	0.50	1.0
Cypermethrin	120	30-170	0.50	1.0
Daminozide	152	30-170	0.50	1.0
DDVP (Dichlorvos)	92	30-170	0.50	1.0
Diazinon	116	30-170	0.10	0.2
Dimethoate	94	30-170	0.10	0.2
Ethoprophos	68	30-170	0.10	0.2
Etofenprox	127	30-170	0.20	0.4
Etoxazole	94	30-170	0.10	0.2
Fenoxycarb	138	30-170	0.10	0.2
Fenpyroximate	67	30-170	0.20	0.4
Fipronil	149	10-190	0.20	0.4
Flonicamid	88	10-190	0.50	1.0
Fludioxonil	113	10-190	0.20	0.4
Hexythiazox	53	10-190	0.50	1.0
Imazalil	90	30-170	0.10	0.2
Imidacloprid	106	30-170	0.20	0.4

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Kresoxim-Methyl	122	30-170	0.20	0.4
Malathion	135	30-170	0.10	0.2
Metalaxyl	124	30-170	0.10	0.2
Methiocarb	126	30-170	0.10	0.2
Methomyl	115	30-170	0.20	0.4
Methyl_Parathion	106	10-190	0.20	0.2
MGK-264	92	10-190	0.10	0.2
Myclobutanil	148	30-170	0.10	0.2
NALED (Dibrom)	136	30-170	0.25	0.5
Oxamyl	150	10-190	0.50	1.0
Paclobutrazol	71	30-170	0.20	0.4
Permethrins	93	30-170	0.10	0.2
Phosmet	75	30-170	0.10	0.2
Piperonyl_Butoxide	87	30-170	1.00	2.0
Prallethrin	139	30-170	0.10	0.2
Propiconazole	138	30-170	0.20	0.4
Propoxur	83	30-170	0.10	0.2
Pyrethrin	84	30-170	0.50	1.0
Pyridaben	67	30-170	0.10	0.2
Spinosad	148	10-190	0.10	0.2
Spiromesifen	115	30-170	0.10	0.2
Spirotetramat	88	30-170	0.10	0.2
Spiroxamine	92	30-170	0.20	0.4
Tebuconazole	67	30-170	0.20	0.4
Thiacloprid	70	30-170	0.10	0.2
Thiamethoxam	85	30-170	0.10	0.2
Trifloxystrobin	68	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.

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

N/A

Shuguo Ma, Ph.D, Quality Manager

Signature:



Date:

17Dec2018

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