

Certificate of Analysis

Sample ID: EFF0807

Report ID: TR-EFF807

Testing for Compliance

Report Date: 12/26/2018

Report Expiry: 12/26/2019

Test RFID: 1A401030000F105000000807

Client Name:

Epic Family Farms

License No:

020-10041847FC2

Date Sampled: 12/21/2018**Sampled by:** Yujing Wen**Sample Name:** SFV OG (buds)**Sample Type:** Usable marijuana**Harvest Time:** 10/07/2018**Sample Weight:** 34.84 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:	25.6%	N/A
Total CBD:	< LOQ	N/A
Water Activity:	0.504 at 19.4 °C	Pass
Moisture Content:	11.0%	N/A
Pesticides:	< LOQ	Pass
Total Terpene:	2.81%	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: 12/24/2018

Batch ID: MC122418

Analyte	Result
Water	11.0%

Water Activity Analysis

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 12/24/2018

Batch ID: WA122418

Analyte	Result	Temperature
Water Activity	0.504	19.4 °C

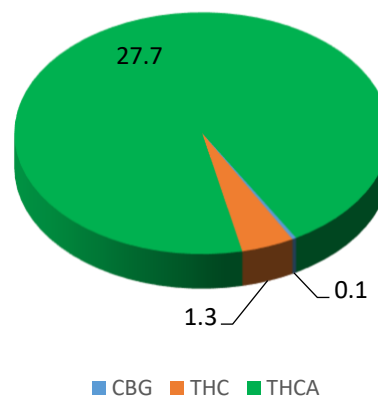
Potency Analysis

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 12/24/2018

Batch ID: PO122418

Analyte	Result, %	LOQ, %
THCV	< LOQ	0.1
CBD	< LOQ	0.1
CBG	0.1	0.1
CBDA	< LOQ	0.1
CBN	< LOQ	0.1
Delta-9 THC	1.3	0.1
Delta-8 THC	< LOQ	0.1
CBC	< LOQ	0.1
THCA	27.7	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	25.6	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	< LOQ	N/A
Total Cannabinoids:	29.1	N/A

Cannabinoids Profile



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Pesticides Analysis (Unit: ppm)

Testing method: SOP-010

Analyzed by: Yujing Wen

Analyzed date: 12/23/2018

Batch ID: PE122318

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

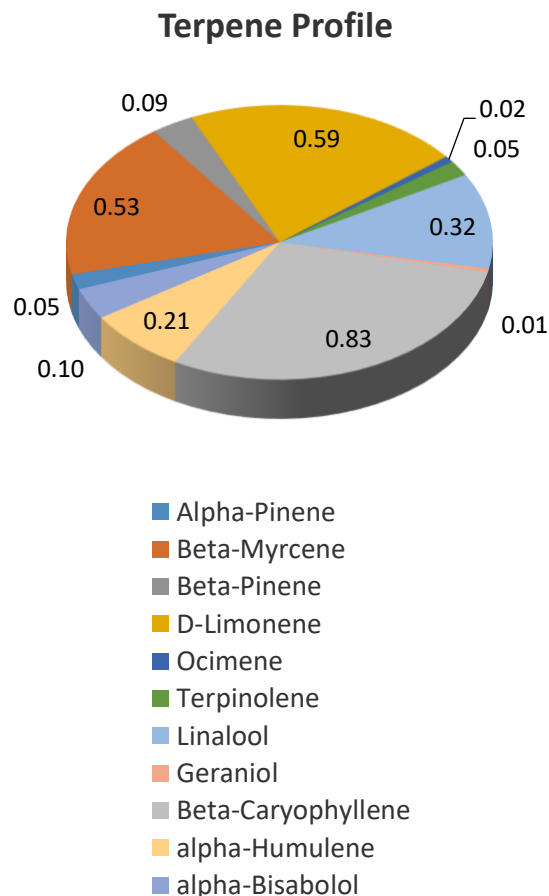
Testing method: SOP-011

Analyzed by: Yujing Wen

Analyzed date: 12/22/2018

Batch ID: TP122218

Analyte	Result, %	LOQ, %
Monoterpenes		
Alpha-Pinene	0.05	0.01
Camphene	< LOQ	0.01
Beta-Myrcene	0.53	0.01
Beta-Pinene	0.09	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.59	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.02	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	0.05	0.01
Linalool	0.32	0.01
Isopulegol	< LOQ	0.01
Geraniol	0.01	0.01
Sesquiterpenes		
Beta-Caryophyllene	0.83	0.01
alpha-Humulene	0.21	0.01
Nerolidol	< LOQ	0.01
Guaiol	< LOQ	0.01
alpha-Bisabolol	0.10	0.01
Total Terpenes	2.81	N/A



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

Blank: MBLK-PO122418		Date analyzed: 12/24/2018
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- PO122418		Date analyzed: 12/24/2018
Analyte	% Recovery	% Recovery Criteria
THCV	88	70-130
CBD	103	70-130
CBG	93	70-130
CBDA	109	70-130
CBN	90	70-130
Delta-9 THC	91	70-130
Delta-8 THC	86	70-130
CBC	120	70-130
THCA	121	70-130

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Quality Control Results

Pesticides Analysis (Unit: ppm)

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

Blank: MBLK-PE122318		Date analyzed: 12/23/2018	
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- PE122318			Date analyzed: 12/23/2018	
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	97	10-190	0.25	0.5
Acephate	112	30-170	0.20	0.4
Acequinocyl	52	10-190	1.00	2.0
Acetamiprid	89	30-170	0.10	0.2
Aldicarb	90	30-170	0.20	0.4
Azoxystrobin	80	30-170	0.10	0.2
Bifenazate	122	10-190	0.10	0.2
Bifenthrin	78	30-170	0.10	0.2
Boscalid	88	30-170	0.20	0.4
Carbaryl	92	30-170	0.10	0.2
Carbofuran	81	30-170	0.10	0.2
Chloranthraniliprole	87	30-170	0.10	0.2
Chlorfenapyr	86	10-190	1.00	1.0
Chlorpyrifos	59	30-170	0.10	0.2
Clofentezine	82	30-170	0.10	0.2
Cyfluthrin	86	30-170	0.50	1.0
Cypermethrin	72	30-170	0.50	1.0
Daminozide	158	30-170	0.50	1.0
DDVP (Dichlorvos)	92	30-170	0.50	1.0
Diazinon	70	30-170	0.10	0.2
Dimethoate	100	30-170	0.10	0.2
Ethoprophos	76	30-170	0.10	0.2
Etofenprox	83	30-170	0.20	0.4
Etoxazole	45	30-170	0.10	0.2
Fenoxycarb	86	30-170	0.10	0.2
Fenpyroximate	97	30-170	0.20	0.4
Fipronil	98	10-190	0.20	0.4
Flonicamid	83	10-190	0.50	1.0
Fludioxonil	72	10-190	0.20	0.4
Hexythiazox	62	10-190	0.50	1.0
Imazalil	91	30-170	0.10	0.2
Imidacloprid	102	30-170	0.20	0.4

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Kresoxim-Methyl	75	30-170	0.20	0.4
Malathion	77	30-170	0.10	0.2
Metalaxyl	75	30-170	0.10	0.2
Methiocarb	137	30-170	0.10	0.2
Methomyl	119	30-170	0.20	0.4
Methyl_Parathion	96	10-190	0.20	0.2
MGK-264	64	10-190	0.10	0.2
Myclobutanil	84	30-170	0.10	0.2
NALED (Dibrom)	84	30-170	0.25	0.5
Oxamyl	125	10-190	0.50	1.0
Paclobutrazol	82	30-170	0.20	0.4
Permethrins	64	30-170	0.10	0.2
Phosmet	77	30-170	0.10	0.2
Piperonyl_Butoxide	99	30-170	1.00	2.0
Prallethrin	74	30-170	0.10	0.2
Propiconazole	89	30-170	0.20	0.4
Propoxur	92	30-170	0.10	0.2
Pyrethrin	96	30-170	0.50	1.0
Pyridaben	82	30-170	0.10	0.2
Spinosad	96	10-190	0.10	0.2
Spiromesifen	72	30-170	0.10	0.2
Spirotetramat	100	30-170	0.10	0.2
Spiroxamine	93	30-170	0.20	0.4
Tebuconazole	80	30-170	0.20	0.4
Thiacloprid	76	30-170	0.10	0.2
Thiamethoxam	83	30-170	0.10	0.2
Trifloxystrobin	79	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:

26Dec2018

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