

**Certificate of Analysis**

Testing for Compliance

Sample ID: EFF3037  
 Report ID: TR-EFF3037

Report Date: 10/07/2019

Source RFID: 1A401030000F105000003036

Test RFID: 1A401030000F105000003037

**Client Name:**  
 Epic Family Farms

**License No:**  
 020-10041847FC2

**Date Sampled:** 10/03/2019  
**Sampled by:** Shuguo Ma  
**Sample Name:** OREGON DIESEL (buds)  
**Sample Type:** Usable marijuana  
**Harvest Time:** 09/06/2019  
**Sample Weight:** 34.28 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
<b>Total THC:</b>	24.3%	N/A
<b>Total CBD:</b>	<0.1%	N/A
<b>Water Activity:</b>	0.493 at 24.3 °C	Pass
<b>Moisture Content:</b>	11.0%	N/A
<b>Total Terpenes:</b>	3.50%	N/A
<b>Pesticides:</b>	< LOQ	Pass

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: 10/06/2019

Batch ID: MC100619

Analyte	Result
Water	11.0%

**Water Activity Analysis**

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 10/06/2019

Batch ID: WA100619

Analyte	Result	Temperature
Water Activity	0.493	24.3 °C

**Potency Analysis**

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 10/03/2019

Batch ID: PO100319

Analyte	Result, %	LOQ, %
CBC	0.5	0.1
CBD	<LOQ	0.1
CBDA	<LOQ	0.1
CBG	<LOQ	0.1
CBN	<LOQ	0.1
DELTA8-THC	<LOQ	0.1
DELTA9-THC	0.9	0.1
THCA	26.6	0.1
THCV	<LOQ	0.1
Total THC: $\Delta 9+0.877 \times \text{THCA}$	24.3	N/A
Total CBD: $\text{CBD}+0.877 \times \text{CBDA}$	<LOQ	N/A
Total Cannabinoids:	28.0	N/A

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Pesticides Analysis (Unit: ppm)

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 10/05/2019

Batch ID: PE100519

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: 10/05/2019

Batch ID: TP100519

Analyte	Result, %	LOQ, %
<b>Monoterpenes</b>		
Alpha-Pinene	0.21	0.01
Camphene	< LOQ	0.01
Beta-Myrcene	0.04	0.01
Beta-Pinene	0.13	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.49	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.41	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	0.01	0.01
Linalool	0.21	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
<b>Sesquiterpenes</b>		
Beta-Caryophyllene	0.82	0.01
alpha-Humulene	0.31	0.01
Nerolidol	0.71	0.01
Guaiol	< LOQ	0.01
alpha-Bisabolol	0.15	0.01
<b>Total Terpenes</b>	3.50	N/A

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Quality Control Results

Potency Analysis

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

Blank: MBLK-PO100419		Date analyzed: 10/04/2019
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- PO100419		Date analyzed: 10/04/2019
Analyte	% Recovery	% Recovery Criteria
THCV	109	70-130
CBD	112	70-130
CBG	109	70-130
CBDA	102	70-130
CBN	110	70-130
Delta-9 THC	112	70-130
Delta-8 THC	115	70-130
CBC	110	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-PE100519		Date analyzed: 10/05/2019	
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-PE100519		Date analyzed: 10/05/2019		
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	95	10-190	0.25	0.5
Acephate	92	30-170	0.20	0.4
Acequinocyl	89	10-190	1.00	2.0
Acetamiprid	94	30-170	0.10	0.2
Aldicarb	93	30-170	0.20	0.4
Azoxystrobin	92	30-170	0.10	0.2
Bifenazate	92	10-190	0.10	0.2
Bifenthrin	86	30-170	0.10	0.2
Boscalid	89	30-170	0.20	0.4
Carbaryl	95	30-170	0.10	0.2
Carbofuran	93	30-170	0.10	0.2
Chloranthraniliprole	95	30-170	0.10	0.2
Chlorfenapyr	87	10-190	1.00	1.0
Chlorpyrifos	91	30-170	0.10	0.2
Clofentezine	91	30-170	0.10	0.2
Cyfluthrin	97	30-170	0.50	1.0
Cypermethrin	90	30-170	0.50	1.0
Daminozide	93	30-170	0.50	1.0
DDVP (Dichlorvos)	92	30-170	0.50	1.0
Diazinon	94	30-170	0.10	0.2
Dimethoate	93	30-170	0.10	0.2
Ethoprophos	93	30-170	0.10	0.2
Etofenprox	90	30-170	0.20	0.4
Etoxazole	90	30-170	0.10	0.2
Fenoxycarb	92	30-170	0.10	0.2
Fenpyroximate	93	30-170	0.20	0.4
Fipronil	111	10-190	0.20	0.4
Flonicamid	111	10-190	0.50	1.0
Fludioxonil	86	10-190	0.20	0.4
Hexythiazox	93	30-170	0.50	1.0
Imazalil	92	30-170	0.10	0.2

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Imidacloprid	94	30-170	0.20	0.4
Kresoxim-Methyl	90	30-170	0.20	0.4
Malathion	93	30-170	0.10	0.2
Metalaxyl	91	30-170	0.10	0.2
Methiocarb	93	30-170	0.10	0.2
Methomyl	97	30-170	0.20	0.4
Methyl_Parathion	90	10-190	0.20	0.2
MGK-264	88	10-190	0.10	0.2
Myclobutanil	92	30-170	0.10	0.2
NALED (Dibrom)	89	30-170	0.25	0.5
Oxamyl	104	10-190	0.50	1.0
Paclobutrazol	93	30-170	0.20	0.4
Permethrins	89	30-170	0.10	0.2
Phosmet	92	30-170	0.10	0.2
Piperonyl_Butoxide	93	30-170	1.00	2.0
Prallethrin	93	30-170	0.10	0.2
Propiconazole	91	30-170	0.20	0.4
Propoxur	93	30-170	0.10	0.2
Pyrethrin	97	30-170	0.50	1.0
Pyridaben	90	30-170	0.10	0.2
Spinosad	84	10-190	0.10	0.2
Spiromesifen	91	30-170	0.10	0.2
Spirotetramat	133	30-170	0.10	0.2
Spiroxamine	94	30-170	0.20	0.4
Tebuconazole	94	30-170	0.20	0.4
Thiacloprid	90	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:

07OCT2019

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