

Certificate of Analysis

Sample ID: EFF2941

Report ID: TR-EFF2941

Testing for Compliance

Report Date: 09/17/2019

Test RFID: 1A401030000F105000002941

Client Name:

Epic Family Farms

License No:

020-10041847FC2

Date Sampled: 09/13/2019**Sampled by:** Shuguo Ma**Sample Name:** Tangelo Buds**Sample Type:** Usable marijuana**Harvest Time:** 8/22/2019**Sample Weight:** 34.20 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:	24.3%	N/A
Total CBD:	0.1%	N/A
Water Activity:	0.505 at 25.3 °C	Pass
Moisture Content:	11.0%	Pass
Pesticides:	< LOQ	Pass
Total Terpene:	1.74%	N/A

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

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Moisture Content Analysis

Testing method: SOP-004

Analyzed by: Yujing Wen

Analyzed date: 09/15/2019

Batch ID: MC091519

Analyte	Result
Water	11.0%

Water Activity Analysis

Testing method: SOP-009

Analyzed by: Yujing Wen

Analyzed date: 09/15/2019

Batch ID: WA091519

Analyte	Result	Temperature
Water Activity	0.505	25.3 °C

Potency Analysis

Testing method: SOP-002

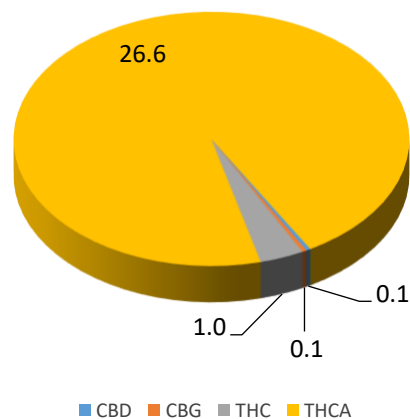
Analyzed by: Yujing Wen

Analyzed date: 09/14/2019

Batch ID: PO091419

Analyte	Result, %	LOQ, %
THCV	< LOQ	0.1
CBD	0.1	0.1
CBG	0.1	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	26.6	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	24.3	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	0.1	N/A
Total Cannabinoids:	27.8	N/A

Cannabinoids Profile



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Pesticide Analysis (Unit: ppm)

Testing method: SOP-010

Analyzed by: Yujing Wen

Analyzed date: 09/14/2019

Batch ID PE091419

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

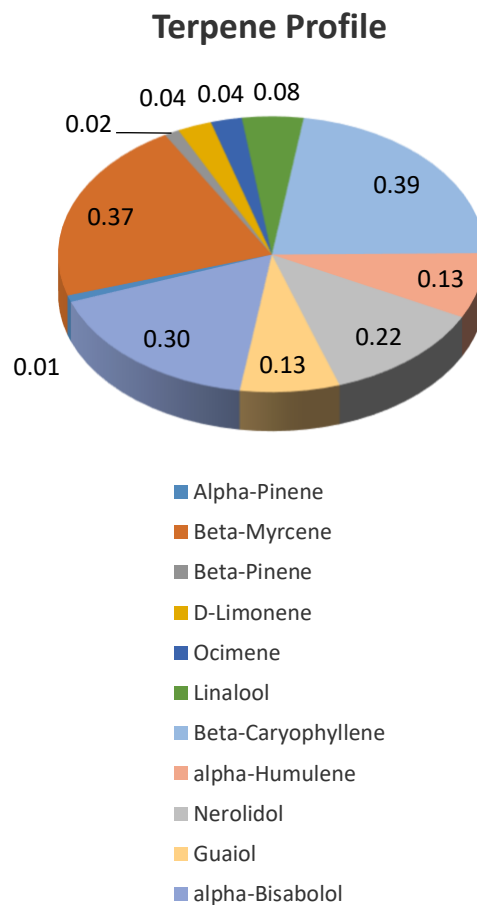
Testing method: SOP-011

Analyzed by: Yujing Wen

Analyzed date: 09/14/2019

Batch ID: TP091419

Analyte	Result, %	LOQ, %
Monoterpenes		
Alpha-Pinene	0.01	0.01
Camphene	< LOQ	0.01
Beta-Myrcene	0.37	0.01
Beta-Pinene	0.02	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.04	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.04	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	< LOQ	0.01
Linalool	0.08	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
Sesquiterpenes		
Beta-Caryophyllene	0.39	0.01
alpha-Humulene	0.13	0.01
Nerolidol	0.22	0.01
Guaiol	0.13	0.01
alpha-Bisabolol	0.30	0.01
Total Terpenes	1.74	N/A



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Quality Control Results

Potency Analysis

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

Blank: MBLK-PO091419		Date analyzed: 09/14/2019
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- PO091419		Date analyzed: 09/14/2019
Analyte	% Recovery	% Recovery Criteria
THCV	117	70-130
CBD	101	70-130
CBG	102	70-130
CBDA	84	70-130
CBN	96	70-130
Delta-9 THC	115	70-130
Delta-8 THC	113	70-130
CBC	109	70-130
THCA	98	70-130

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Quality Control Results

Pesticide Analysis (Unit: ppm)

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

Blank: MBLK-PE091419		Date analyzed: 09/14/2019	
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
Etiozazole	< 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-PE091419			Date analyzed: 09/14/2019	
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	115	10-190	0.25	0.5
Acephate	79	30-170	0.20	0.4
Acequinocyl	101	10-190	1.00	2.0
Acetamiprid	84	30-170	0.10	0.2
Aldicarb	119	30-170	0.20	0.4
Azoxystrobin	94	30-170	0.10	0.2
Bifenazate	116	10-190	0.10	0.2
Bifenthrin	45	30-170	0.10	0.2
Boscalid	103	30-170	0.20	0.4
Carbaryl	99	30-170	0.10	0.2
Carbofuran	115	30-170	0.10	0.2
Chloranthraniliprole	116	30-170	0.10	0.2
Chlorfenapyr	142	10-190	1.00	1.0
Chlorpyrifos	63	30-170	0.10	0.2
Clofentezine	99	30-170	0.10	0.2
Cyfluthrin	106	30-170	0.50	1.0
Cypermethrin	88	30-170	0.50	1.0
Daminozide	127	30-170	0.50	1.0
DDVP (Dichlorvos)	106	30-170	0.50	1.0
Diazinon	158	30-170	0.10	0.2
Dimethoate	104	30-170	0.10	0.2
Ethoprophos	130	30-170	0.10	0.2
Etofenprox	112	30-170	0.20	0.4
Etoxazole	103	30-170	0.10	0.2
Fenoxycarb	131	30-170	0.10	0.2
Fenpyroximate	133	30-170	0.20	0.4
Fipronil	137	10-190	0.20	0.4
Flonicamid	105	10-190	0.50	1.0
Fludioxonil	93	10-190	0.20	0.4
Hexythiazox	87	30-170	0.50	1.0
Imazalil	133	30-170	0.10	0.2
Imidacloprid	91	30-170	0.20	0.4

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Kresoxim-Methyl	153	30-170	0.20	0.4
Malathion	140	30-170	0.10	0.2
Metalaxyl	149	30-170	0.10	0.2
Methiocarb	107	30-170	0.10	0.2
Methomyl	137	30-170	0.20	0.4
Methyl Parathion	59	10-190	0.20	0.2
MGK-264	49	10-190	0.10	0.2
Myclobutanil	132	30-170	0.10	0.2
NALED (Dibrom)	70	30-170	0.25	0.5
Oxamyl	96	10-190	0.50	1.0
Paclobutrazol	131	30-170	0.20	0.4
Permethrins	89	30-170	0.10	0.2
Phosmet	102	30-170	0.10	0.2
Piperonyl Butoxide	97	30-170	1.00	2.0
Prallethrin	124	30-170	0.10	0.2
Propiconazole	153	30-170	0.20	0.4
Propoxur	113	30-170	0.10	0.2
Pyrethrin	119	30-170	0.50	1.0
Pyridaben	88	30-170	0.10	0.2
Spinosad	136	10-190	0.10	0.2
Spiromesifen	148	30-170	0.10	0.2
Spirotetramat	118	30-170	0.10	0.2
Spiroxamine	137	30-170	0.20	0.4
Tebuconazole	128	30-170	0.20	0.4
Thiacloprid	75	30-170	0.10	0.2
Thiamethoxam	88	30-170	0.10	0.2
Trifloxystrobin	112	30-170	0.10	0.2

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Source RFID: 1A401030000F105000002940

Test RFID: 1A401030000F105000002941

Attachments:

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

Deviation occurred in test?	Opinion and interpretation provided?
Answer: No	Answer: No

Comments: "N/A" if there is no comment made
N/A

Shuguo Ma, Ph.D, Quality Manager

Signature:



Date:

17Sep2019

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