

Certificate of Analysis

Testing for Compliance

Sample ID: EFF3685

Report ID: TR-EFF3685

Report Date: 01/06/2020

Test RFID: 1A401030000F105000003685

Client Name:

Epic Family Farms

License No:

020-10041847FC2

<p>Date Sampled: 01/02/2020</p> <p>Sampled by: Shuguo Ma</p> <p>Sample Name: Tangelo (Buds)</p> <p>Sample Type: Usable Marijuana</p> <p>Harvest Time: 10/14/2019</p> <p>Sample Weight: 35.88 g</p>	<p>Description of the sample, sampling condition. Environmental conditions that may impact interpretation of the test result:</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
Total THC:	21.4%	N/A
Total CBD:	< LOQ	N/A
Water Activity:	0.468 at 19.2 °C	Pass
Moisture Content:	10.1%	Pass
Pesticides:	< LOQ	Pass
Total Terpene	1.91%	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: 01/04/2020
 Batch ID: MC010420

Analyte	Result
Water	10.1%

Water Activity Analysis

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 01/03/2020
 Batch ID: WA010320

Analyte	Result	Temperature
Water Activity	0.468	19.2 °C

Potency Analysis

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 01/03/2020
 Batch ID: PO010320

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	24.4	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	21.4	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	< LOQ	N/A
Total Cannabinoids:	24.4	N/A

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Pesticide Analysis (Unit: ppm)

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 01/04/2020

Batch ID PE010420

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: 01/03/2020

Batch ID: TP010320

Analyte	Result, %	LOQ, %
Monoterpenes		
Alpha-Pinene	0.02	0.01
Camphene	< LOQ	0.01
Beta-Myrcene	0.58	0.01
Beta-Pinene	0.02	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.19	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.16	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	0.06	0.01
Linalool	0.07	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
Sesquiterpenes		
Beta-Caryophyllene	0.38	0.01
alpha-Humulene	0.14	0.01
Nerolidol	0.03	0.01
Guaiol	0.03	0.01
alpha-Bisabolol	0.24	0.01
Total Terpenes	1.91	N/A

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Quality Control Results

Potency Analysis

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

Blank: MBLK-PO010320		Date analyzed: 01/03/2020
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- PO010320		Date analyzed: 01/03/2020
Analyte	% Recovery	% Recovery Criteria
THCV	113	70-130
CBD	99	70-130
CBG	109	70-130
CBDA	99	70-130
CBN	99	70-130
Delta-9 THC	90	70-130
Delta-8 THC	107	70-130
CBC	99	70-130
THCA	99	70-130

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Quality Control Results

Pesticide Analysis (Unit: ppm)

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

Blank: MBLK-PE010420		Date analyzed: 01/04/2020	
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-PE010420		Date analyzed: 01/04/2020		
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	61	10-190	0.25	0.5
Acephate	122	30-170	0.20	0.4
Acequinocyl	83	10-190	1.00	2.0
Acetamiprid	99	30-170	0.10	0.2
Aldicarb	63	30-170	0.20	0.4
Azoxystrobin	91	30-170	0.10	0.2
Bifenazate	59	10-190	0.10	0.2
Bifenthrin	81	30-170	0.10	0.2
Boscalid	117	30-170	0.20	0.4
Carbaryl	104	30-170	0.10	0.2
Carbofuran	102	30-170	0.10	0.2
Chloranthraniliprole	108	30-170	0.10	0.2
Chlorfenapyr	70	10-190	1.00	1.0
Chlorpyrifos	107	30-170	0.10	0.2
Clofentezine	139	30-170	0.10	0.2
Cyfluthrin	69	30-170	0.50	1.0
Cypermethrin	78	30-170	0.50	1.0
Daminozide	104	30-170	0.50	1.0
DDVP (Dichlorvos)	75	30-170	0.50	1.0
Diazinon	94	30-170	0.10	0.2
Dimethoate	107	30-170	0.10	0.2
Ethoprophos	102	30-170	0.10	0.2
Etofenprox	102	30-170	0.20	0.4
Etoxazole	78	30-170	0.10	0.2
Fenoxycarb	93	30-170	0.10	0.2
Fenpyroximate	123	30-170	0.20	0.4
Fipronil	38	10-190	0.20	0.4
Fonicamid	32	10-190	0.50	1.0
Fludioxonil	74	10-190	0.20	0.4
Hexythiazox	149	30-170	0.50	1.0
Imazalil	82	30-170	0.10	0.2
Imidacloprid	94	30-170	0.20	0.4

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Kresoxim-Methyl	77	30-170	0.20	0.4
Malathion	92	30-170	0.10	0.2
Metalaxyl	76	30-170	0.10	0.2
Methiocarb	101	30-170	0.10	0.2
Methomyl	69	30-170	0.20	0.4
Methyl_Parathion	107	10-190	0.20	0.2
MGK-264	100	10-190	0.10	0.2
Myclobutanil	108	30-170	0.10	0.2
NALED (Dibrom)	75	30-170	0.25	0.5
Oxamyl	127	10-190	0.50	1.0
Paclobutrazol	89	30-170	0.20	0.4
Permethrins	95	30-170	0.10	0.2
Phosmet	90	30-170	0.10	0.2
Piperonyl_Butoxide	81	30-170	1.00	2.0
Prallethrin	100	30-170	0.10	0.2
Propiconazole	93	30-170	0.20	0.4
Propoxur	96	30-170	0.10	0.2
Pyrethrin	88	30-170	0.50	1.0
Pyridaben	84	30-170	0.10	0.2
Spinosad	116	10-190	0.10	0.2
Spiromesifen	94	30-170	0.10	0.2
Spirotetramat	120	30-170	0.10	0.2
Spiroxamine	82	30-170	0.20	0.4
Tebuconazole	89	30-170	0.20	0.4
Thiacloprid	102	30-170	0.10	0.2
Thiamethoxam	133	30-170	0.10	0.2
Trifloxystrobin	119	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? Answer: No	Opinion and interpretation provided? 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:

06Jan2020

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