

Certificate of Analysis

Sample ID: EFF3777
Report ID: TR-EFF3777

Report Date: 01/28/2020

Test RFID: 1A401030000F105000003777

Client Name:
Epic Family Farms

License No:
020-10041847FC2

Date Sampled: 01/23/2020
Sampled by: Shuguo Ma
Sample Name: Tangelo (Buds)
Sample Type: Usable Marijuana
Harvest Time: 10/14/2019
Sample Weight: 35.15 g

Description of the sample, sampling condition.
Environmental conditions that may impact interpretation of the test result:

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:	25.5%	N/A
Total CBD:	< LOQ	N/A
Water Activity:	0.480 at 18.7 °C	Pass
Moisture Content:	10.7%	Pass
Pesticides:	< LOQ	Pass
Total Terpene:	1.95%	N/A

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

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Moisture Content Analysis

Testing method: SOP-004 Analyzed by: Yujing Wen Analyzed date: 01/25/2020

Batch ID: MC012520

Analyte	Result
Water	10.7%

Water Activity Analysis

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 01/25/2020

Batch ID: WA012520

Analyte	Result	Temperature
Water Activity	0.480	18.7 °C

Potency Analysis

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 01/24/2020

Batch ID: PO012420

Analyte	Result, %	LOQ, %
THCV	< LOQ	0.1
< LOQ	< 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	29.1	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	25.5	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	< LOQ	N/A
Total Cannabinoids:	29.1	N/A

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Pesticide Analysis (Unit: ppm)

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 01/24/2020

Batch ID PE012420

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: 01/24/2020

Batch ID: TP012420

Analyte	Result, %	LOQ, %
Monoterpenes		
Alpha-Pinene	< LOQ	0.01
Camphene	< LOQ	0.01
Beta-Myrcene	0.57	0.01
Beta-Pinene	0.02	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.22	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.19	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	0.01	0.01
Linalool	0.06	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
Sesquiterpenes		
Beta-Caryophyllene	0.51	0.01
alpha-Humulene	0.19	0.01
Nerolidol	0.03	0.01
Guaiol	< LOQ	0.01
alpha-Bisabolol	0.15	0.01
Total Terpenes	1.95	N/A

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Quality Control Results

Potency Analysis

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

Blank: MBLK-PO012420		Date analyzed: 01/24/2020
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- PO012420		Date analyzed: 01/24/2020
Analyte	% Recovery	% Recovery Criteria
THCV	86	70-130
CBD	98	70-130
CBG	98	70-130
CBDA	84	70-130
CBN	92	70-130
Delta-9 THC	100	70-130
Delta-8 THC	100	70-130
CBC	109	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-PE012420		Date analyzed: 01/24/2020	
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-PE012420		Date analyzed: 01/24/2020		
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	67	10-190	0.25	0.5
Acephate	122	30-170	0.20	0.4
Acequinocyl	86	10-190	1.00	2.0
Acetamiprid	97	30-170	0.10	0.2
Aldicarb	76	30-170	0.20	0.4
Azoxystrobin	89	30-170	0.10	0.2
Bifenazate	44	10-190	0.10	0.2
Bifenthrin	89	30-170	0.10	0.2
Boscalid	109	30-170	0.20	0.4
Carbaryl	102	30-170	0.10	0.2
Carbofuran	99	30-170	0.10	0.2
Chloranthraniliprole	104	30-170	0.10	0.2
Chlorfenapyr	50	10-190	1.00	1.0
Chlorpyrifos	105	30-170	0.10	0.2
Clofentezine	143	30-170	0.10	0.2
Cyfluthrin	87	30-170	0.50	1.0
Cypermethrin	85	30-170	0.50	1.0
Daminozide	104	30-170	0.50	1.0
DDVP (Dichlorvos)	83	30-170	0.50	1.0
Diazinon	88	30-170	0.10	0.2
Dimethoate	108	30-170	0.10	0.2
Ethoprophos	101	30-170	0.10	0.2
Etofenprox	97	30-170	0.20	0.4
Etoxazole	71	30-170	0.10	0.2
Fenoxycarb	88	30-170	0.10	0.2
Fenpyroximate	116	30-170	0.20	0.4
Fipronil	41	10-190	0.20	0.4
Flonicamid	43	10-190	0.50	1.0
Fludioxonil	93	10-190	0.20	0.4
Hexythiazox	150	30-170	0.50	1.0
Imazalil	82	30-170	0.10	0.2
Imidacloprid	97	30-170	0.20	0.4

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Kresoxim-Methyl	83	30-170	0.20	0.4
Malathion	91	30-170	0.10	0.2
Metalaxyl	77	30-170	0.10	0.2
Methiocarb	99	30-170	0.10	0.2
Methomyl	67	30-170	0.20	0.4
Methyl_Parathion	103	10-190	0.20	0.2
MGK-264	99	10-190	0.10	0.2
Myclobutanil	104	30-170	0.10	0.2
NALED (Dibrom)	56	30-170	0.25	0.5
Oxamyl	118	10-190	0.50	1.0
Paclobutrazol	83	30-170	0.20	0.4
Permethrins	107	30-170	0.10	0.2
Phosmet	81	30-170	0.10	0.2
Piperonyl_Butoxide	87	30-170	1.00	2.0
Prallethrin	95	30-170	0.10	0.2
Propiconazole	86	30-170	0.20	0.4
Propoxur	99	30-170	0.10	0.2
Pyrethrin	87	30-170	0.50	1.0
Pyridaben	77	30-170	0.10	0.2
Spinosad	113	10-190	0.10	0.2
Spiromesifen	94	30-170	0.10	0.2
Spirotetramat	118	30-170	0.10	0.2
Spiroxamine	84	30-170	0.20	0.4
Tebuconazole	83	30-170	0.20	0.4
Thiacloprid	91	30-170	0.10	0.2
Thiamethoxam	139	30-170	0.10	0.2
Trifloxystrobin	115	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: 28Jan2020

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