

Certificate of Analysis

Testing for Compliance

Sample ID: EFF4261
Report ID: TR-EFF4261

Report Date: 04/20/2020

Test RFID: 1A401030000F105000004261

Client Name:
Epic Family Farms

License No:
020-10041847FC2

Date Sampled: 04/15/2020
Sampled by: Yujing Wen
Sample Name: Mac #1 (Buds)
Sample Type: Usable marijuana
Harvest Time: 10/24/2019
Sample Weight: 35.12 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:	22.0%	N/A
Total CBD:	< LOQ	N/A
Water Activity:	0.474 at 20.3 °C	Pass
Moisture Content:	10.1%	Pass
Pesticides:	< LOQ	Pass
Total Terpene:	2.00%	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: 04/17/2020

Batch ID: MC041720

Analyte	Result
Water	10.1%

Water Activity Analysis

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 04/16/2020

Batch ID: WA041620

Analyte	Result	Temperature
Water Activity	0.474	20.3 °C

Potency Analysis

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 04/16/2020

Batch ID: PO041620

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	2.1	0.1
Delta-8 THC	< LOQ	0.1
CBC	< LOQ	0.1
THCA	22.7	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	22.0	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	< LOQ	N/A
Total Cannabinoids:	24.8	N/A

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Pesticide Analysis (Unit: ppm)

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 04/16/2020

Batch ID PE041620

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: 04/16/2020

Analyte	Result, %	LOQ, %
Monoterpenes		
Alpha-Pinene	0.05	0.01
Camphene	0.01	0.01
Beta-Myrcene	0.08	0.01
Beta-Pinene	0.07	0.01
3-Carene	0.01	0.01
alpha-Terpinene	0.02	0.01
D-Limonene	0.35	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.31	0.01
gamma-Terpinene	0.02	0.01
Terpinolene	0.54	0.01
Linalool	0.13	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
Sesquiterpenes		
Beta-Caryophyllene	0.22	0.01
alpha-Humulene	0.11	0.01
Nerolidol	0.02	0.01
Guaiol	< LOQ	0.01
alpha-Bisabolol	0.06	0.01
Total Terpenes	2.00	N/A

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Quality Control Results

Potency Analysis

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

Blank: MBLK-PO041620		Date analyzed: 04/16/2020
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- PO041620		Date analyzed: 04/16/2020
Analyte	% Recovery	% Recovery Criteria
THCV	102	70-130
CBD	100	70-130
CBG	109	70-130
CBDA	109	70-130
CBN	98	70-130
Delta-9 THC	93	70-130
Delta-8 THC	85	70-130
CBC	93	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-PE041620		Date analyzed: 04/16/2020	
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-PE041620		Date analyzed: 04/16/2020		
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	72	10-190	0.25	0.5
Acephate	72	30-170	0.20	0.4
Acequinocyl	90	10-190	1.00	2.0
Acetamiprid	125	30-170	0.10	0.2
Aldicarb	59	30-170	0.20	0.4
Azoxystrobin	57	30-170	0.10	0.2
Bifenazate	115	10-190	0.10	0.2
Bifenthrin	108	30-170	0.10	0.2
Boscalid	115	30-170	0.20	0.4
Carbaryl	70	30-170	0.10	0.2
Carbofuran	86	30-170	0.10	0.2
Chloranthraniliprole	62	30-170	0.10	0.2
Chlorfenapyr	128	10-190	1.00	1.0
Chlorpyrifos	132	30-170	0.10	0.2
Clofentezine	73	30-170	0.10	0.2
Cyfluthrin	157	30-170	0.50	1.0
Cypermethrin	97	30-170	0.50	1.0
Daminozide	72	30-170	0.50	1.0
DDVP (Dichlorvos)	73	30-170	0.50	1.0
Diazinon	76	30-170	0.10	0.2
Dimethoate	86	30-170	0.10	0.2
Ethoprophos	82	30-170	0.10	0.2
Etofenprox	42	30-170	0.20	0.4
Etoxazole	156	30-170	0.10	0.2
Fenoxycarb	114	30-170	0.10	0.2
Fenpyroximate	67	30-170	0.20	0.4
Fipronil	68	10-190	0.20	0.4
Fonicamid	101	10-190	0.50	1.0
Fludioxonil	100	10-190	0.20	0.4
Hexythiazox	131	30-170	0.50	1.0
Imazalil	109	30-170	0.10	0.2
Imidacloprid	106	30-170	0.20	0.4

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Kresoxim-Methyl	52	30-170	0.20	0.4
Malathion	61	30-170	0.10	0.2
Metalaxyl	126	30-170	0.10	0.2
Methiocarb	76	30-170	0.10	0.2
Methomyl	75	30-170	0.20	0.4
Methyl_Parathion	76	10-190	0.20	0.2
MGK-264	159	10-190	0.10	0.2
Myclobutanil	84	30-170	0.10	0.2
NALED (Dibrom)	94	30-170	0.25	0.5
Oxamyl	62	10-190	0.50	1.0
Paclobutrazol	118	30-170	0.20	0.4
Permethrins	139	30-170	0.10	0.2
Phosmet	100	30-170	0.10	0.2
Piperonyl_Butoxide	61	30-170	1.00	2.0
Prallethrin	96	30-170	0.10	0.2
Propiconazole	130	30-170	0.20	0.4
Propoxur	96	30-170	0.10	0.2
Pyrethrin	82	30-170	0.50	1.0
Pyridaben	102	30-170	0.10	0.2
Spinosad	98	10-190	0.10	0.2
Spiromesifen	56	30-170	0.10	0.2
Spirotetramat	104	30-170	0.10	0.2
Spiroxamine	109	30-170	0.20	0.4
Tebuconazole	140	30-170	0.20	0.4
Thiacloprid	95	30-170	0.10	0.2
Thiamethoxam	85	30-170	0.10	0.2
Trifloxystrobin	35	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:

20Apr2020

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