

Certificate of Analysis

Testing for Compliance

Sample ID: EFF4090
 Report ID: TR-EFF4090

Report Date: 03/29/2020

Test RFID: 1A401030000F105000004090

Client Name:
 Epic Family Farms

License No:
 020-1004847FC2

Date Sampled: 03/25/2020
Sampled by: Yujing Wen
Sample Name: Blueberry Cupcake (Buds)
Sample Type: Usable marijuana
Harvest Time: 10/19/2019
Sample Weight: 33.11 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:	21.6%	N/A
Total CBD:	< LOQ	N/A
Water Activity:	0.483 at 18.1 °C	Pass
Moisture Content:	10.6%	Pass
Pesticides:	< LOQ	Pass
Total Terpene:	1.96%	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: 03/28/2020

Batch ID: MC032820

Analyte	Result
Water	10.6%

Water Activity Analysis

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 03/26/2020

Batch ID: WA032620

Analyte	Result	Temperature
Water Activity	0.483	18.1 °C

Potency Analysis

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 03/26/2020

Batch ID: PO032620

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	0.7	0.1
Delta-8 THC	< LOQ	0.1
CBC	< LOQ	0.1
THCA	23.8	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	21.6	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	< LOQ	N/A
Total Cannabinoids:	24.5	N/A

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Pesticides Analysis (Unit: ppm)

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 03/27/2020

Batch ID: PE032720

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: 03/26/2020

Analyte	Result, %	LOQ, %
Monoterpenes		
Alpha-Pinene	0.19	0.01
Camphene	< LOQ	0.01
Beta-Myrcene	0.41	0.01
Beta-Pinene	0.11	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.11	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.09	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	0.14	0.01
Linalool	0.13	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
Sesquiterpenes		
Beta-Caryophyllene	0.35	0.01
alpha-Humulene	0.18	0.01
Nerolidol	0.07	0.01
Guaiol	0.02	0.01
alpha-Bisabolol	0.17	0.01
Total Terpenes	1.96	N/A

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Quality Control Results

Potency Analysis

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

Blank: MBLK-PO032620		Date analyzed: 03/26/2020
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- PO032620		Date analyzed: 03/26/2020
Analyte	% Recovery	% Recovery Criteria
THCV	115	70-130
CBD	105	70-130
CBG	100	70-130
CBDA	104	70-130
CBN	100	70-130
Delta-9 THC	101	70-130
Delta-8 THC	109	70-130
CBC	102	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-PE032720		Date analyzed: 03/27/2020	
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-PE032720		Date analyzed: 03/27/2020		
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	94	10-190	0.25	0.5
Acephate	108	30-170	0.20	0.4
Acequinocyl	123	10-190	1.00	2.0
Acetamiprid	140	30-170	0.10	0.2
Aldicarb	113	30-170	0.20	0.4
Azoxystrobin	79	30-170	0.10	0.2
Bifenazate	56	10-190	0.10	0.2
Bifenthrin	145	30-170	0.10	0.2
Boscalid	94	30-170	0.20	0.4
Carbaryl	103	30-170	0.10	0.2
Carbofuran	135	30-170	0.10	0.2
Chloranthraniliprole	130	30-170	0.10	0.2
Chlorfenapyr	38	10-190	1.00	1.0
Chlorpyrifos	86	30-170	0.10	0.2
Clofentezine	81	30-170	0.10	0.2
Cyfluthrin	53	30-170	0.50	1.0
Cypermethrin	56	30-170	0.50	1.0
Daminozide	109	30-170	0.50	1.0
DDVP (Dichlorvos)	40	30-170	0.50	1.0
Diazinon	113	30-170	0.10	0.2
Dimethoate	114	30-170	0.10	0.2
Ethoprophos	129	30-170	0.10	0.2
Etofenprox	95	30-170	0.20	0.4
Etoxazole	59	30-170	0.10	0.2
Fenoxycarb	63	30-170	0.10	0.2
Fenpyroximate	142	30-170	0.20	0.4
Fipronil	96	10-190	0.20	0.4
Flonicamid	53	10-190	0.50	1.0
Fludioxonil	73	10-190	0.20	0.4
Hexythiazox	71	30-170	0.50	1.0
Imazalil	118	30-170	0.10	0.2
Imidacloprid	132	30-170	0.20	0.4

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Kresoxim-Methyl	47	30-170	0.20	0.4
Malathion	96	30-170	0.10	0.2
Metalaxyl	86	30-170	0.10	0.2
Methiocarb	121	30-170	0.10	0.2
Methomyl	104	30-170	0.20	0.4
Methyl_Parathion	107	10-190	0.20	0.2
MGK-264	102	10-190	0.10	0.2
Myclobutanil	147	30-170	0.10	0.2
NALED (Dibrom)	52	30-170	0.25	0.5
Oxamyl	130	10-190	0.50	1.0
Paclobutrazol	59	30-170	0.20	0.4
Permethrins	122	30-170	0.10	0.2
Phosmet	38	30-170	0.10	0.2
Piperonyl_Butoxide	76	30-170	1.00	2.0
Prallethrin	63	30-170	0.10	0.2
Propiconazole	66	30-170	0.20	0.4
Propoxur	90	30-170	0.10	0.2
Pyrethrin	61	30-170	0.50	1.0
Pyridaben	51	30-170	0.10	0.2
Spinosad	53	10-190	0.10	0.2
Spiromesifen	88	30-170	0.10	0.2
Spirotetramat	83	30-170	0.10	0.2
Spiroxamine	127	30-170	0.20	0.4
Tebuconazole	60	30-170	0.20	0.4
Thiacloprid	108	30-170	0.10	0.2
Thiamethoxam	113	30-170	0.10	0.2
Trifloxystrobin	104	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: 29Mar2020

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