

Certificate of Analysis

Sample ID: EFF1500

Report ID: TR-EFF1500

Testing for Compliance

Report Date: 05/20/2019

Test RFID: 1A401030000F105000001500

Client Name:

Epic Family Farms

License No:

020-10041847FC2

Date Sampled: 05/17/2019**Sampled by:** Yujing Wen**Sample Name:** Jack The Ripper B Buds**Sample Type:** Usable marijuana**Harvest Time:** 10/04/2018**Sample Weight:** 20.49 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:	17.6%	N/A
Total CBD:	< LOQ	N/A
Water Activity:	0.485 at 20.7 °C	Pass
Moisture Content:	10.4%	Pass
Pesticides:	< LOQ	Pass

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: 05/18/2019

Batch ID: MC051819

Analyte	Result
Water	10.4%

Water Activity Analysis

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 05/17/2019

Batch ID: WA051719

Analyte	Result	Temperature
Water Activity	0.485	20.7 °C

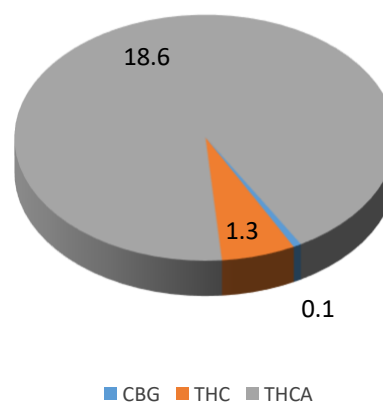
Potency Analysis

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 05/17/2019

Batch ID: PO051719

Analyte	Result, %	LOQ, %
THCV	< LOQ	0.1
CBD	< LOQ	0.1
CBG	0.1	0.1
CBDA	< LOQ	0.1
CBN	< LOQ	0.1
Delta-9 THC	1.3	0.1
Delta-8 THC	< LOQ	0.1
CBC	< LOQ	0.1
THCA	18.6	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	17.6	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	< LOQ	N/A
Total Cannabinoids:	20.0	N/A

Cannabinoids Profile



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Pesticides Analysis (Unit: ppm)

Testing method: SOP-010

Analyzed by: Yujing Wen

Analyzed date: 05/18/2019

Batch ID: PE051819

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

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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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Quality Control Results

Potency Analysis

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

Blank: MBLK-PO051719		Date analyzed: 05/17/2019
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-PO051719		Date analyzed: 05/17/2019
Analyte	% Recovery	% Recovery Criteria
THCV	91	70-130
CBD	113	70-130
CBG	96	70-130
CBDA	101	70-130
CBN	86	70-130
Delta-9 THC	92	70-130
Delta-8 THC	92	70-130
CBC	91	70-130
THCA	92	70-130

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Quality Control Results

Pesticides Analysis (Unit: ppm)

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

Blank: MBLK-PE051819		Date analyzed: 05/18/2019	
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
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-PE051819			Date analyzed: 05/18/2019	
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	99	10-190	0.25	0.5
Acephate	96	30-170	0.20	0.4
Acequinocyl	61	10-190	1.00	2.0
Acetamiprid	83	30-170	0.10	0.2
Aldicarb	77	30-170	0.20	0.4
Azoxystrobin	102	30-170	0.10	0.2
Bifenazate	90	10-190	0.10	0.2
Bifenthrin	53	30-170	0.10	0.2
Boscalid	105	30-170	0.20	0.4
Carbaryl	105	30-170	0.10	0.2
Carbofuran	81	30-170	0.10	0.2
Chloranthraniliprole	95	30-170	0.10	0.2
Chlorfenapyr	66	10-190	1.00	1.0
Chlorpyrifos	67	30-170	0.10	0.2
Clofentezine	89	30-170	0.10	0.2
Cyfluthrin	105	30-170	0.50	1.0
Cypermethrin	104	30-170	0.50	1.0
Daminozide	137	30-170	0.50	1.0
DDVP (Dichlorvos)	96	30-170	0.50	1.0
Diazinon	84	30-170	0.10	0.2
Dimethoate	85	30-170	0.10	0.2
Ethoprophos	90	30-170	0.10	0.2
Etofenprox	65	30-170	0.20	0.4
Etoxazole	62	30-170	0.10	0.2
Fenoxycarb	104	30-170	0.10	0.2
Fenpyroximate	124	30-170	0.20	0.4
Fipronil	123	10-190	0.20	0.4
Flonicamid	97	10-190	0.50	1.0
Fludioxonil	63	10-190	0.20	0.4
Hexythiazox	64	30-170	0.50	1.0
Imazalil	102	30-170	0.10	0.2

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Source RFID: 1A401030000F105000001255

Test RFID: 1A401030000F105000001500

Imidacloprid	101	30-170	0.20	0.4
Kresoxim-Methyl	58	30-170	0.20	0.4
Malathion	88	30-170	0.10	0.2
Metalaxyl	80	30-170	0.10	0.2
Methiocarb	76	30-170	0.10	0.2
Methomyl	97	30-170	0.20	0.4
Methyl_Parathion	82	10-190	0.20	0.2
MGK-264	121	10-190	0.10	0.2
Myclobutanil	131	30-170	0.10	0.2
NALED (Dibrom)	93	30-170	0.25	0.5
Oxamyl	83	10-190	0.50	1.0
Paclobutrazol	77	30-170	0.20	0.4
Permethrins	43	30-170	0.10	0.2
Phosmet	82	30-170	0.10	0.2
Piperonyl_Butoxide	90	30-170	1.00	2.0
Prallethrin	87	30-170	0.10	0.2
Propiconazole	104	30-170	0.20	0.4
Propoxur	92	30-170	0.10	0.2
Pyrethrin	122	30-170	0.50	1.0
Pyridaben	100	30-170	0.10	0.2
Spinosad	135	10-190	0.10	0.2
Spiromesifen	80	30-170	0.10	0.2
Spirotetramat	124	30-170	0.10	0.2
Spiroxamine	110	30-170	0.20	0.4
Tebuconazole	140	30-170	0.20	0.4
Thiacloprid	65	30-170	0.10	0.2
Thiamethoxam	84	30-170	0.10	0.2
Trifloxystrobin	65	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:

20May2019

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