

Certificate of Analysis

Sample ID: EFF3834
Report ID: TR-EFF3834

Report Date: 02/23/2020

Test RFID: 1A401030000F105000003834

Client Name:
Epic Family Farms

License No:
020-10041847FC2

Date Sampled: 02/19/2020
Sampled by: Yujing Wen
Sample Name: White Widow (Buds)
Sample Type: Usable Marijuana
Harvest Time: 10/9/2019
Sample Weight: 16.34 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:	23.7%	N/A
Total CBD:	3.5%	N/A
Water Activity:	0.476 at 18.6 °C	Pass
Moisture Content:	10.4%	Pass
Pesticides:	< LOQ	Pass
Total Terpene:	1.45%	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: 02/22/2020

Batch ID: MC022220

Analyte	Result
Water	10.4%

Water Activity Analysis

Testing method: SOP-009 Analyzed by: Yujing Wen Analyzed date: 02/20/2020

Batch ID: WA022020

Analyte	Result	Temperature
Water Activity	0.476	18.6 °C

Potency Analysis

Testing method: SOP-002 Analyzed by: Yujing Wen Analyzed date: 02/20/2020

Batch ID: PO022020

Analyte	Result, %	LOQ, %
THCV	< LOQ	0.1
CBD	< LOQ	0.1
CBG	< LOQ	0.1
CBDA	4.0	0.1
CBN	< LOQ	0.1
Delta-9 THC	< LOQ	0.1
Delta-8 THC	< LOQ	0.1
CBC	< LOQ	0.1
THCA	27.0	0.1
Total THC: $\Delta 9 + 0.877 \times \text{THCA}$	23.7	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	3.5	N/A
Total Cannabinoids:	31.0	N/A

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Pesticide Analysis (Unit: ppm)

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 02/20/2020

Batch ID PE022020

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: 02/20/2020

Batch ID: TP022020

Analyte	Result, %	LOQ, %
Monoterpenes		
Alpha-Pinene	0.01	0.01
Camphene	< LOQ	0.01
Beta-Myrcene	0.28	0.01
Beta-Pinene	0.02	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.09	0.01
P-Cymene	< LOQ	0.01
Ocimene	0.07	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	0.14	0.01
Linalool	0.22	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
Sesquiterpenes		
Beta-Caryophyllene	0.31	0.01
alpha-Humulene	0.14	0.01
Nerolidol	0.03	0.01
Guaiol	0.09	0.01
alpha-Bisabolol	0.06	0.01
Total Terpenes	1.45	N/A

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Quality Control Results

Potency Analysis

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

Blank: MBLK-PO022020		Date analyzed: 02/20/2020
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- PO022020		Date analyzed: 02/20/2020
Analyte	% Recovery	% Recovery Criteria
THCV	100	70-130
CBD	101	70-130
CBG	108	70-130
CBDA	92	70-130
CBN	97	70-130
Delta-9 THC	104	70-130
Delta-8 THC	103	70-130
CBC	107	70-130
THCA	116	70-130

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Quality Control Results

Pesticide Analysis (Unit: ppm)

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

Blank: MBLK-PE022020		Date analyzed: 02/20/2020	
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-PE022020		Date analyzed: 02/20/2020		
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	41	10-190	0.25	0.5
Acephate	158	30-170	0.20	0.4
Acequinocyl	90	10-190	1.00	2.0
Acetamidrid	93	30-170	0.10	0.2
Aldicarb	101	30-170	0.20	0.4
Azoxystrobin	95	30-170	0.10	0.2
Bifenazate	37	10-190	0.10	0.2
Bifenthrin	101	30-170	0.10	0.2
Boscalid	113	30-170	0.20	0.4
Carbaryl	102	30-170	0.10	0.2
Carbofuran	103	30-170	0.10	0.2
Chloranthraniliprole	117	30-170	0.10	0.2
Chlorfenapyr	89	10-190	1.00	1.0
Chlorpyrifos	94	30-170	0.10	0.2
Clofentezine	130	30-170	0.10	0.2
Cyfluthrin	81	30-170	0.50	1.0
Cypermethrin	92	30-170	0.50	1.0
Daminozide	114	30-170	0.50	1.0
DDVP (Dichlorvos)	104	30-170	0.50	1.0
Diazinon	105	30-170	0.10	0.2
Dimethoate	115	30-170	0.10	0.2
Ethoprophos	107	30-170	0.10	0.2
Etofenprox	120	30-170	0.20	0.4
Etoxazole	74	30-170	0.10	0.2
Fenoxycarb	90	30-170	0.10	0.2
Fenpyroximate	141	30-170	0.20	0.4
Fipronil	40	10-190	0.20	0.4
Fonicamid	35	10-190	0.50	1.0
Fludioxonil	100	10-190	0.20	0.4
Hexythiazox	120	30-170	0.50	1.0
Imazalil	93	30-170	0.10	0.2
Imidacloprid	91	30-170	0.20	0.4

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Kresoxim-Methyl	89	30-170	0.20	0.4
Malathion	106	30-170	0.10	0.2
Metalaxyl	80	30-170	0.10	0.2
Methiocarb	105	30-170	0.10	0.2
Methomyl	79	30-170	0.20	0.4
Methyl_Parathion	104	10-190	0.20	0.2
MGK-264	78	10-190	0.10	0.2
Myclobutanil	112	30-170	0.10	0.2
NALED (Dibrom)	66	30-170	0.25	0.5
Oxamyl	31	10-190	0.50	1.0
Paclobutrazol	82	30-170	0.20	0.4
Permethrins	126	30-170	0.10	0.2
Phosmet	73	30-170	0.10	0.2
Piperonyl_Butoxide	105	30-170	1.00	2.0
Prallethrin	102	30-170	0.10	0.2
Propiconazole	88	30-170	0.20	0.4
Propoxur	106	30-170	0.10	0.2
Pyrethrin	79	30-170	0.50	1.0
Pyridaben	84	30-170	0.10	0.2
Spinosad	132	10-190	0.10	0.2
Spiromesifen	113	30-170	0.10	0.2
Spirotetramat	139	30-170	0.10	0.2
Spiroxamine	98	30-170	0.20	0.4
Tebuconazole	77	30-170	0.20	0.4
Thiacloprid	86	30-170	0.10	0.2
Thiamethoxam	145	30-170	0.10	0.2
Trifloxystrobin	130	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: 23Feb2020

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