

Certificate of Analysis

Sample ID: OPF0024
 Report ID: TR-OPF0024

Testing for Compliance

Report Date: 11/18/2018
 Report Expiry: 11/18/2019

Test RFID: 1A401030001C975000000024

Client Name:
 Oregon Pharm Fresh

Contact:
 Douglas Erickson
 541-999-5804
 dougerickson66@hotmail.com

License No:
 030- 1009957B64B

Address:
 5902 Monument Drive #A
 Grant Pass, OR 97526

Control Study Certificate: MJ1156.
Control Study Expiry Date: 15 November 2019

Date Sampled: 11/16/2018
Sampled by: Yujing Wen
Sample Name: Win Sample 2
Sample Type: Hemp Concentrate
Sample Weight: 17.56 g

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

 Cannabinoid extract. Sample appeared normal. There were no any environmental conditions that may impact interpretation of the test result.

Summary of Test Results

Item	Value, %
Total THC	< LOQ
Total CBD	89.7

RPD for THC, %	State limit for RPD, %	Pass/Fail
NA	20.0	NA

Items	Results, ppm	Pass/Fail
Pesticide	< LOQ	Pass
Residual Solvent	< LOQ	Pass

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Test RFID: 1A401030001C975000000024

Potency Analysis

Testing method: SOP-002

Analyzed by: Yujing Wen

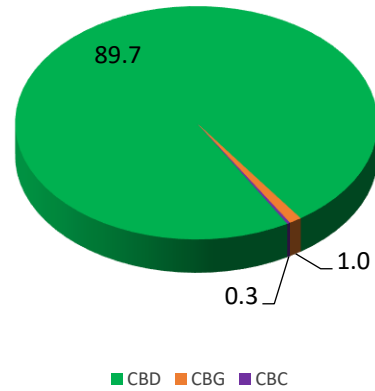
Analyzed date: 11/16/2018

Batch ID: PO111618

Sample ID: OPF0023PS

Analyte	Result, %	LOQ, %
THCV	< LOQ	0.1
CBD	89.7	0.1
CBG	1.0	0.1
CBDA	< LOQ	0.1
CBN	< LOQ	0.1
Delta-9 THC	< LOQ	0.1
Delta-8 THC	< LOQ	0.1
CBC	0.3	0.1
THCA	< LOQ	0.1
Total THC: $\Delta_9+0.877 \times \text{THCA}$	< LOQ	N/A
Total CBD: $\text{CBD}+0.877 \times \text{CBDA}$	89.7	N/A
Total Cannabinoids:	91.0	N/A

Cannabinoids Profile



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Test RFID: 1A401030001C975000000024

Pesticide Analysis for Primary and Duplicate Samples (Unit: ppm)

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 11/17/2018

Batch ID PE111718

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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Test RFID: 1A401030001C975000000024

Residual Solvent Analysis for Primary and Duplicate Samples (Unit: ppm)

Testing method: SOP-001 Analyzed by: Yujing Wen Analyzed date: 11/16/2018
 Batch ID: RS111618

Analyte	Result	LOQ	State Action Level
1,4-Dioxane	< LOQ	190	380
2-Butanol	< LOQ	2500	5000
2-Ethoxyethanol	< LOQ	80	160
2-Propanol (IPA)	< LOQ	2500	5000
Acetone	< LOQ	2500	5000
Acetonitrile	< LOQ	205	410
Benzene	< LOQ	2	2
Butanes	< LOQ	2500	5000
Cumene	< LOQ	35	70
Cyclohexane	< LOQ	1940	3880
Dichloromethane	< LOQ	300	600
Ethyl Acetate	< LOQ	2500	5000
Ethyl Ether	< LOQ	2500	5000
Ethylene glycol	< LOQ	310	620
Ethylene Oxide	< LOQ	40	50
Heptane	< LOQ	2500	5000
Hexanes	< LOQ	145	290
Isopropyl Acetate	< LOQ	2500	5000
Methanol	< LOQ	1500	3000
Pentanes	< LOQ	2500	5000
Propane	< LOQ	2513	5000
Tetrahydrofuran (THF)	< LOQ	360	720
Toluene	< LOQ	445	890
Xylenes	< LOQ	1085	2170

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Quality Control Results

Potency Analysis

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

Field duplicate: OFF0024FD		Date analyzed: 11/16/2018		
Analyte	Result, %	RPD, %	State Criteria for RPD, %	Pass/Fail
THCV	< LOQ	N/A	N/A	N/A
CBD	78.4	N/A	N/A	N/A
CBG	1.0	N/A	N/A	N/A
CBDA	< LOQ	N/A	N/A	N/A
CBN	< LOQ	N/A	N/A	N/A
Delta-9 THC	< LOQ	N/A	N/A	N/A
Delta-8 THC	< LOQ	N/A	N/A	N/A
CBC	0.3	N/A	N/A	N/A
THCA	< LOQ	N/A	N/A	N/A
Total THC: $\Delta_9 + 0.877 \times \text{THCA}$	< LOQ	N/A	20.0	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	78.4	N/A	N/A	N/A
Total Cannabinoids	79.7	N/A	N/A	N/A

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Blank: MBLK-PO111618		Date analyzed: 11/16/2018
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-PO111618		Date analyzed: 11/16/2018
Analyte	% Recovery	% Recovery Criteria
THCV	93	70-130
CBD	90	70-130
CBG	97	70-130
CBDA	95	70-130
CBN	96	70-130
Delta-9 THC	90	70-130
Delta-8 THC	91	70-130
CBC	86	70-130
THCA	100	70-130

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Quality Control Results

Pesticide Analysis (Unit: ppm)

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

Blank: MBLK-PE111718		Date analyzed: 11/17/2018	
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- PE111718		Date analyzed: 11/17/2018		
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	139	10-190	0.25	0.5
Acephate	106	30-170	0.20	0.4
Acequinocyl	97	10-190	1.00	2.0
Acetamiprid	81	30-170	0.10	0.2
Aldicarb	137	30-170	0.20	0.4
Azoxystrobin	113	30-170	0.10	0.2
Bifenazate	88	10-190	0.10	0.2
Bifenthrin	61	30-170	0.10	0.2
Boscalid	100	30-170	0.20	0.4
Carbaryl	97	30-170	0.10	0.2
Carbofuran	91	30-170	0.10	0.2
Chloranthraniliprole	112	30-170	0.10	0.2
Chlorfenapyr	142	10-190	1.00	1.0
Chlorpyrifos	50	30-170	0.10	0.2
Clofentezine	63	30-170	0.10	0.2
Cyfluthrin	101	30-170	0.50	1.0
Cypermethrin	94	30-170	0.50	1.0
Daminozide	114	30-170	0.50	1.0
DDVP (Dichlorvos)	105	30-170	0.50	1.0
Diazinon	130	30-170	0.10	0.2
Dimethoate	99	30-170	0.10	0.2
Ethoprophos	103	30-170	0.10	0.2
Etofenprox	144	30-170	0.20	0.4
Etoxazole	138	30-170	0.10	0.2
Fenoxycarb	104	30-170	0.10	0.2
Fenpyroximate	138	30-170	0.20	0.4
Fipronil	106	10-190	0.20	0.4
Flonicamid	105	10-190	0.50	1.0
Fludioxonil	88	10-190	0.20	0.4
Hexythiazox	95	10-190	0.50	1.0
Imazalil	110	10-190	0.10	0.2
Imidacloprid	94	30-170	0.20	0.4

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Source RFID: 1A401030001C975000000020

Test RFID: 1A401030001C975000000024

Kresoxim-Methyl	101	30-170	0.20	0.4
Malathion	94	30-170	0.10	0.2
Metalaxyl	101	30-170	0.10	0.2
Methiocarb	114	30-170	0.10	0.2
Methomyl	124	30-170	0.20	0.4
Methyl Parathion	135	10-190	0.20	0.2
MGK-264	72	10-190	0.10	0.2
Myclobutanil	101	30-170	0.10	0.2
NALED (Dibrom)	82	30-170	0.25	0.5
Oxamyl	142	10-190	0.50	1.0
Paclobutrazol	107	30-170	0.20	0.4
Permethrins	99	30-170	0.10	0.2
Phosmet	85	30-170	0.10	0.2
Piperonyl Butoxide	153	30-170	1.00	2.0
Prallethrin	125	30-170	0.10	0.2
Propiconazole	121	30-170	0.20	0.4
Propoxur	97	30-170	0.10	0.2
Pyrethrin	122	30-170	0.50	1.0
Pyridaben	144	30-170	0.10	0.2
Spinosad	148	10-190	0.10	0.2
Spiromesifen	101	30-170	0.10	0.2
Spirotetramat	127	30-170	0.10	0.2
Spiroxamine	123	30-170	0.20	0.4
Tebuconazole	113	30-170	0.20	0.4
Thiacloprid	67	30-170	0.10	0.2
Thiamethoxam	85	30-170	0.10	0.2
Trifloxystrobin	147	30-170	0.10	0.2

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Quality Control Results

Residual Solvent Analysis (Unit: ppm)

Testing method: SOP-001 by GC/MS

Blank: MBLK-RS111618		Date analyzed: 11/16/2018	
Analyte	Result	LOQ	State Action Level
PROPANE	< LOQ	2500	5000
ISOBUTANE	< LOQ	2500	5000
BUTANE	< LOQ	2500	5000
MEOH	< LOQ	1500	3000
ETHYLENE OXIDE	< LOQ	25	50
ISOPENTANE	< LOQ	2500	5000
PENTANE	< LOQ	2500	5000
ETHYL ETHER	< LOQ	2500	5000
ACETONE	< LOQ	2500	5000
2,2 DIMETHYLBUTANE	< LOQ	145	290
IPA	< LOQ	2500	5000
ACN	< LOQ	205	410
DICHLOROMETHANE	< LOQ	300	600
2,3DIMETHYLBUTANE	< LOQ	145	290
3-METHYLPENTANE	< LOQ	145	290
HEXANE	< LOQ	145	290
ETHYLACETATE	< LOQ	2500	5000
2-BUTANOL	< LOQ	2500	5000
THF	< LOQ	360	720
CYCLOHEXANE	< LOQ	1940	3880
ISOPROPYL ACETATE	< LOQ	2500	5000
BENZENE	< LOQ	1	2
HEPTANE	< LOQ	2500	5000
1,4 DIOXANE	< LOQ	190	380
2-ETHOXY ETHANOL	< LOQ	80	160
ETHYLENE GLYCOL	< LOQ	310	620
TOLUENE	< LOQ	445	890

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Source RFID: 1A401030001C975000000020

Test RFID: 1A401030001C975000000024

ETHYL BENZENE	< LOQ	1085	2170
M/P XYLENE	< LOQ	1085	2170
O-XYLENE	< LOQ	1085	2170
CUMENE	< LOQ	35	70

LCS: LCS-RS111618		Date analyzed: 11/16/2018	
Analyte	% Recovery	% Recovery Criteria	
PROPANE	94	10-190	
ISOBUTANE	132	10-190	
BUTANE	138	10-190	
MEOH	99	30-170	
ETHYLENE OXIDE	126	30-170	
ISOPENTANE	69	30-170	
PENTANE	78	30-170	
ETHYL ETHER	94	30-170	
ACETONE	103	30-170	
2,2 DIMETHYLBUTANE	79	30-170	
IPA	121	30-170	
ACN	82	30-170	
DICHLOROMETHANE	97	30-170	
2,3DIMETHYLBUTANE	82	30-170	
3-METHYLPENTANE	87	30-170	
HEXANE	90	30-170	
ETHYLACETATE	108	30-170	
2-BUTANOL	100	30-170	
THF	99	30-170	
CYCLOHEXANE	104	30-170	
ISOPROPYL ACETATE	106	30-170	
BENZENE	89	30-170	
HEPTANE	96	30-170	
1,4 DIOXANE	82	30-170	
2-ETHOXY ETHANOL	73	30-170	
ETHYLENE GLYCOL	31	10-190	

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Test RFID: 1A401030001C975000000024

TOLUENE	93	30-170
ETHYL BENZENE	84	30-170
M/P XYLENE	84	30-170
O-XYLENE	79	30-170
CUMENE	74	30-170

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:

18Nov2018

LOQ: the limit of quantitation, which is the lowest amount of analyte in a sample that can be quantitatively determined by an analytical method with a suitable precision and accuracy. N/A: not applicable.
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