

Certificate of Analysis

Sample ID: HC27292
 Report ID: TR-HC27292

Testing for Compliance

Report Date: 02/24/2019

Test RFID: 1A4010300008B11000027292

Client Name:

Halo Canna

Contact:

Chad Yearsley
 Chad.or@halocanna.com
 Phone: (541) 821-5205

License No:

1004164663A

Control Study Certificate: MJ760

Control Study Expiration Date: 25 April 2019

Address:

130 W Clark St. Medford, OR 97501

Date Sampled: 02/22/2019

Sampled by: Yujing Wen

Sample Name: Extract I Sunshine Darkness LR

Sample Type: Cannabinoid Extract

Sample Weight: 12.27 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	79.2
Total CBD	7.8
Total Terpenes	2.08

RPD for THC, %	State limit for RPD, %	Pass/Fail
1.1	15.0	Pass

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

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Potency Analysis

Testing method: SOP-002

Analyzed by: Yujing Wen

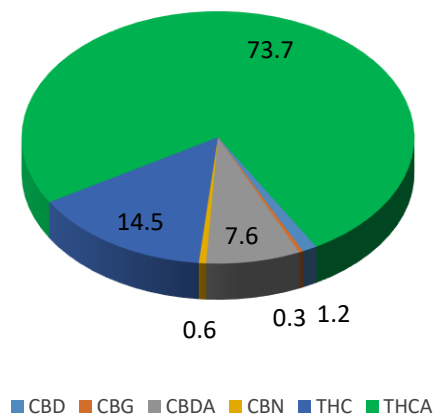
Analyzed date: 02/22/2019

Batch ID: PO022219

Sample ID: HC27292PS

Analyte	Result, %	LOQ, %
THCV	<LOQ	0.1
CBD	1.2	0.1
CBG	0.3	0.1
CBDA	7.6	0.1
CBN	0.6	0.1
Delta-9 THC	14.5	0.1
Delta-8 THC	<LOQ	0.1
CBC	<LOQ	0.1
THCA	73.7	0.1
Total THC: $\Delta_9 + 0.877 \times \text{THCA}$	79.2	N/A
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	7.8	N/A
Total Cannabinoids:	97.9	N/A

Cannabinoids Profile



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Terpene Analysis

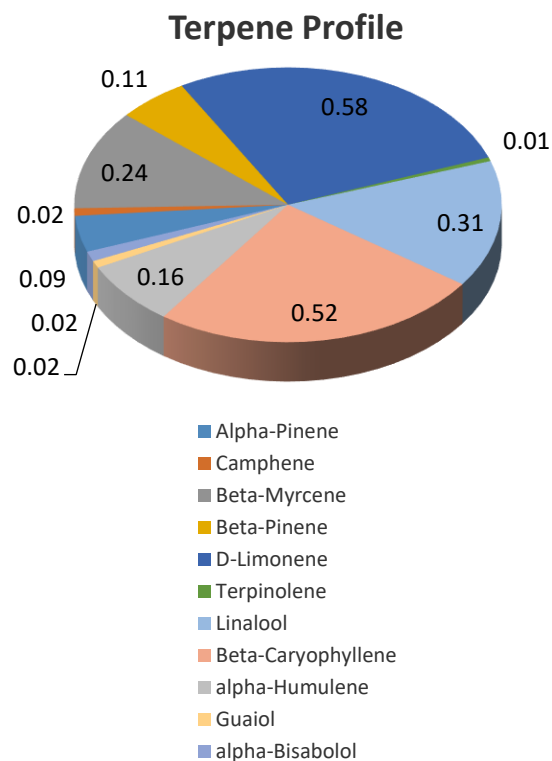
Testing method: SOP-011

Analyzed by: Yujing Wen

Analyzed date: 02/22/2019

Batch ID: TP022219

Analyte	Result, %	LOQ, %
Monoterpenes		
Alpha-Pinene	0.09	0.01
Camphene	0.02	0.01
Beta-Myrcene	0.24	0.01
Beta-Pinene	0.11	0.01
3-Carene	< LOQ	0.01
alpha-Terpinene	< LOQ	0.01
D-Limonene	0.58	0.01
P-Cymene	< LOQ	0.01
Ocimene	< LOQ	0.01
gamma-Terpinene	< LOQ	0.01
Terpinolene	0.01	0.01
Linalool	0.31	0.01
Isopulegol	< LOQ	0.01
Geraniol	< LOQ	0.01
Sesquiterpenes		
Beta-Caryophyllene	0.52	0.01
alpha-Humulene	0.16	0.01
Nerolidol	< LOQ	0.01
Guaiol	0.02	0.01
alpha-Bisabolol	0.02	0.01
Total Terpenes	2.08	N/A



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Sample ID: HC27292
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Testing for Compliance

Report Date: 02/24/2019

Test RFID: 1A4010300008B11000027292

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

Testing method: SOP-010 Analyzed by: Yujing Wen Analyzed date: 02/23/2019

Batch ID PE022319

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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Source RFID: 1A4010300008B11000027280

Test RFID: 1A4010300008B11000027292

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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Testing for Compliance

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Test RFID: 1A4010300008B11000027292

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

Testing method: SOP-001 Analyzed by: Yujing Wen Analyzed date: 02/23/2019

Batch ID: RS022319

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: HC27292FD		Date analyzed: 02/22/2019		
Analyte	Result, %	RPD, %	State Criteria for RPD, %	Pass/Fail
THCV	<LOQ	N/A	N/A	N/A
CBD	1.2	N/A	N/A	N/A
CBG	0.4	N/A	N/A	N/A
CBDA	8.2	N/A	N/A	N/A
CBN	0.6	N/A	N/A	N/A
Delta-9 THC	15.1	N/A	N/A	N/A
Delta-8 THC	<LOQ	N/A	N/A	N/A
CBC	<LOQ	N/A	N/A	N/A
THCA	74.1	N/A	N/A	N/A
Total THC: $\Delta_9 + 0.877 \times \text{THCA}$	80.1	1.1	15.0	Pass
Total CBD: $\text{CBD} + 0.877 \times \text{CBDA}$	8.4	N/A	N/A	N/A
Total Cannabinoids	99.7	N/A	N/A	N/A

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Test RFID: 1A4010300008B11000027292

Blank: MBLK-PO022219		Date analyzed: 02/22/2019
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- PO022219		Date analyzed: 02/22/2019
Analyte	% Recovery	% Recovery Criteria
THCV	101	70-130
CBD	116	70-130
CBG	102	70-130
CBDA	90	70-130
CBN	115	70-130
Delta-9 THC	99	70-130
Delta-8 THC	87	70-130
CBC	114	70-130
THCA	88	70-130

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Test RFID: 1A4010300008B11000027292

Quality Control Results

Pesticide Analysis (Unit: ppm)

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

Blank: MBLK-PE022319		Date analyzed: 02/23/2019	
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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Source RFID: 1A4010300008B11000027280

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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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Test RFID: 1A4010300008B11000027292

LCS: LCS- PE022319		Date analyzed: 02/23/2019		
Analyte	% Recovery	% Recovery Criteria	LOQ	State Action Level
Abamectin	74	10-190	0.25	0.5
Acephate	137	30-170	0.20	0.4
Acequinocyl	67	10-190	1.00	2.0
Acetamiprid	112	30-170	0.10	0.2
Aldicarb	104	30-170	0.20	0.4
Azoxystrobin	61	30-170	0.10	0.2
Bifenazate	88	10-190	0.10	0.2
Bifenthrin	63	30-170	0.10	0.2
Boscalid	124	30-170	0.20	0.4
Carbaryl	84	30-170	0.10	0.2
Carbofuran	95	30-170	0.10	0.2
Chloranthraniliprole	74	30-170	0.10	0.2
Chlorfenapyr	54	10-190	1.00	1.0
Chlorpyrifos	72	30-170	0.10	0.2
Clofentezine	127	30-170	0.10	0.2
Cyfluthrin	88	30-170	0.50	1.0
Cypermethrin	82	30-170	0.50	1.0
Daminozide	83	30-170	0.50	1.0
DDVP (Dichlorvos)	56	30-170	0.50	1.0
Diazinon	61	30-170	0.10	0.2
Dimethoate	89	30-170	0.10	0.2
Ethoprophos	60	30-170	0.10	0.2
Etofenprox	50	30-170	0.20	0.4
Etoxazole	65	30-170	0.10	0.2
Fenoxycarb	76	30-170	0.10	0.2
Fenpyroximate	89	30-170	0.20	0.4
Fipronil	127	10-190	0.20	0.4
Flonicamid	74	10-190	0.50	1.0
Fludioxonil	53	10-190	0.20	0.4
Hexythiazox	106	10-190	0.50	1.0
Imazalil	90	10-190	0.10	0.2
Imidacloprid	120	30-170	0.20	0.4

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Source RFID: 1A4010300008B11000027280

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Kresoxim-Methyl	54	30-170	0.20	0.4
Malathion	62	30-170	0.10	0.2
Metalaxyl	74	30-170	0.10	0.2
Methiocarb	62	30-170	0.10	0.2
Methomyl	74	30-170	0.20	0.4
Methyl Parathion	85	10-190	0.20	0.2
MGK-264	142	10-190	0.10	0.2
Myclobutanil	80	30-170	0.10	0.2
NALED (Dibrom)	131	30-170	0.25	0.5
Oxamyl	107	10-190	0.50	1.0
Paclobutrazol	101	30-170	0.20	0.4
Permethrins	38	30-170	0.10	0.2
Phosmet	85	30-170	0.10	0.2
Piperonyl Butoxide	64	30-170	1.00	2.0
Prallethrin	86	30-170	0.10	0.2
Propiconazole	82	30-170	0.20	0.4
Propoxur	85	30-170	0.10	0.2
Pyrethrin	78	30-170	0.50	1.0
Pyridaben	64	30-170	0.10	0.2
Spinosad	89	10-190	0.10	0.2
Spiromesifen	47	30-170	0.10	0.2
Spirotetramat	94	30-170	0.10	0.2
Spiroxamine	92	30-170	0.20	0.4
Tebuconazole	103	30-170	0.20	0.4
Thiacloprid	124	30-170	0.10	0.2
Thiamethoxam	109	30-170	0.10	0.2
Trifloxystrobin	59	30-170	0.10	0.2

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Test RFID: 1A4010300008B11000027292

Quality Control Results

Residual Solvent Analysis (Unit: ppm)

Testing method: SOP-001 by GC/MS

Blank: MBLK-RS022319		Date analyzed: 02/23/2019	
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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ETHYL BENZENE	< LOQ	1085	2170
M/P XYLENE	< LOQ	1085	2170
O-XYLENE	< LOQ	1085	2170
CUMENE	< LOQ	35	70

LCS: LCS- RS022319		Date analyzed: 02/23/2019
Analyte	% Recovery	% Recovery Criteria
PROPANE	90	10-190
ISOBUTANE	115	10-190
BUTANE	103	10-190
MEOH	79	30-170
ETHYLENE OXIDE	85	30-170
ISOPENTANE	78	30-170
PENTANE	81	30-170
ETHYL ETHER	88	30-170
ACETONE	95	30-170
2,2 DIMETHYLBUTANE	85	30-170
IPA	103	30-170
ACN	113	30-170
DICHLOROMETHANE	100	30-170
2,3DIMETHYLBUTANE	85	30-170
3-METHYLPENTANE	86	30-170
HEXANE	88	30-170
ETHYLACETATE	105	30-170
2-BUTANOL	106	30-170
THF	108	30-170
CYCLOHEXANE	91	30-170
ISOPROPYL ACETATE	109	30-170
BENZENE	104	30-170
HEPTANE	95	30-170
1,4 DIOXANE	105	30-170
2-ETHOXY ETHANOL	110	30-170
ETHYLENE GLYCOL	107	10-190

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.
 These results are specific to the sample included in this report. The report may not be reproduced except in full, with written approval from MW Labs.

Certificate of Analysis

Testing for Compliance

Sample ID: HC27292
 Report ID: TR-HC27292

Report Date: 02/24/2019

Source RFID: 1A4010300008B11000027280

Test RFID: 1A4010300008B11000027292

TOLUENE	108	30-170
ETHYL BENZENE	109	30-170
M/P XYLENE	110	30-170
O-XYLENE	109	30-170
CUMENE	109	30-170

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: 24Feb2019

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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