

# Analytical Report

Tested for: Merkabah, Inc  
 Sample ID: WV-11102017-GG4(H)  
 Sample Type: Oil  
 Lab Sample ID: C1711089-02A  
 Date Received: 11/13/2017 Date Tested 11/16/2017



## Cannabinoid Potency

LC-DAD	Result	MRL*	Units
Cannabidiol (CBD)	0.251	0.13	%
Cannabidiolic Acid (CBDA)	ND	0.13	%
Cannabigerol (CBG)	1.18	0.13	%
Cannabigerolic Acid (CBGA)	0.285	0.13	%
Cannabinol (CBN)	0.677	0.13	%
Tetrahydrocannabinol ( $\Delta$ 9THC)	79.1	0.13	%
Tetrahydrocannabinolic Acid (THCa)	0.961	0.13	%

## Cannabinoid Summary

LC-DAD	Result	MRL*	Units
Total cannabinoids	82.5	NA	%
Total CBD equivalents	0.324	NA	%
Total THC equivalents	79.9	NA	%

## Terpenes

GC-MS	Result	MRL*	Units
3-Carene	ND	0.38	mg/g
Camphene	0.570	0.38	mg/g
Caryophyllene oxide	1.08	0.38	mg/g
cis-Nerolidol	ND	0.38	mg/g
Eucalyptol	ND	0.38	mg/g
Geraniol	ND	0.38	mg/g
Guaiol	1.33	0.38	mg/g
Isopulegol	ND	0.38	mg/g
Limonene	1.13	0.38	mg/g
Linalool	ND	0.38	mg/g
Myrcene	1.58	0.38	mg/g
Ocimene	ND	0.38	mg/g
Terpinolene	2.72	0.38	mg/g
trans-Nerolidol	1.47	0.38	mg/g
$\alpha$ -Bisabolol	3.98	0.38	mg/g
$\alpha$ -Humulene	2.49	0.38	mg/g
$\alpha$ -Pinene	1.12	0.38	mg/g
$\alpha$ -Terpinene	ND	0.38	mg/g
$\beta$ -Caryophyllene	5.47	0.38	mg/g
$\beta$ -Pinene	1.14	0.38	mg/g
$\gamma$ -Terpinene	1.46	0.38	mg/g
Total Terpenes	25.5		mg/g

## Microbiological Analysis

3M Petrifilm/Plate Count	Result	MRL*	Units
E. coli	ND	10	cfu/g
Pseudomonas aeruginosa	ND	1,000	cfu/g
Total aerobic plate count	ND	1,000	cfu/g
Total coliforms	ND	10	cfu/g
Total yeast and mold	ND	1,000	cfu/g

## Residual Solvents

GC-FID	Result	MRL*	Units
2-Methylbutane			
Acetone			
Benzene			
Butane			
Chloroform			
Ethanol			
Isobutane			
Isopropanol			
Methanol			
n-Heptane			
n-Hexane			
n-Pentane			
Propane			
Toluene			
Total Residual Solvents	<400	400	mg/kg

ND = Not Detected at the Reporting Limit

\*This is the minimum concentration of analyte reported. There are no safety limits imposed by California at this time.

Approved for release by:

# Analytical Report

Tested for: Merkabah, Inc  
Sample ID: WV-11102017-GG4(H)  
Sample Type: Oil  
Lab Sample ID: C1711089-02A  
Date Received: 11/13/2017      Date Tested 11/15/2017



## Pesticides

LC-MS/MS	Result	MRL*	Units
Acequinocyl	ND	2.0	µg/g
Avermectin B1a	ND	0.50	µg/g
Bifenazate	ND	0.20	µg/g
Bifenthrin	ND	0.20	µg/g
Carbaryl	ND	0.20	µg/g
Daminozide	ND	1.0	µg/g
Diazinon	ND	0.20	µg/g
Etoxazole	ND	0.20	µg/g
Fenoxycarb	ND	0.20	µg/g
Imidacloprid	ND	0.40	µg/g
Kresoxim-Methyl	ND	0.40	µg/g
Myclobutanil	ND	0.20	µg/g
Paclobutrazol	ND	0.40	µg/g
Piperonyl butoxide	ND	0.20	µg/g
Pyrethrin I	ND	0.60	µg/g
Pyrethrin II	ND	0.40	µg/g
Spinosyn A	ND	0.11	µg/g
Spinosyn D	ND	0.085	µg/g
Spiromesifen	ND	0.20	µg/g
Spirotetramat	ND	0.20	µg/g
Tebuconazole	ND	0.40	µg/g
Thiamethoxam	ND	0.20	µg/g
Trifloxystrobin	ND	0.20	µg/g

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A handwritten signature in black ink, appearing to read "Jerry Chaney", is written over a horizontal line.

# Analytical Report

Tested for: Merkabah, Inc  
 Sample ID: WV011018-(H) GG4  
 Sample Type: Oil  
 Lab Sample ID: C1801038-01A  
 Date Received: 1/10/2018 Date Tested 1/15/2018



## Cannabinoid Potency

LC-DAD	Result	MRL*	Units
Cannabidiol (CBD)	ND	0.14	%
Cannabidiolic Acid (CBDA)	ND	0.14	%
Cannabigerol (CBG)	1.14	0.14	%
Cannabigerolic Acid (CBGA)	ND	0.14	%
Cannabinol (CBN)	0.327	0.14	%
Tetrahydrocannabinol ( $\Delta$ 9THC)	77.0	0.14	%
Tetrahydrocannabinolic Acid (THCa)	ND	0.14	%

## Cannabinoid Summary

LC-DAD	Result	MRL*	Units
Total cannabinoids	78.6	NA	%
Total CBD equivalents	0.123	NA	%
Total THC equivalents	77.0	NA	%

## Terpenes

GC-MS	Result	MRL*	Units
3-Carene	ND	0.40	mg/g
Camphene	ND	0.40	mg/g
Caryophyllene oxide	1.83	0.40	mg/g
cis-Nerolidol	ND	0.40	mg/g
Eucalyptol	ND	0.40	mg/g
Geraniol	ND	0.40	mg/g
Guaiol	0.727	0.40	mg/g
Isopulegol	ND	0.40	mg/g
Limonene	4.53	0.40	mg/g
Linalool	2.08	0.40	mg/g
Myrcene	3.63	0.40	mg/g
Ocimene	ND	0.40	mg/g
Terpinolene	ND	0.40	mg/g
trans-Nerolidol	ND	0.40	mg/g
$\alpha$ -Bisabolol	4.49	0.40	mg/g
$\alpha$ -Humulene	7.91	0.40	mg/g
$\alpha$ -Pinene	0.460	0.40	mg/g
$\alpha$ -Terpinene	ND	0.40	mg/g
$\beta$ -Caryophyllene	26.4	0.40	mg/g
$\beta$ -Pinene	1.00	0.40	mg/g
$\gamma$ -Terpinene	ND	0.40	mg/g
Total Terpenes	53.1		mg/g

## Microbiological Analysis

3M Petrifilm/Plate Count	Result	MRL*	Units
E. coli	ND	10	cfu/g
Pseudomonas aeruginosa	ND	1,000	cfu/g
Total aerobic plate count	ND	1,000	cfu/g
Total coliforms	ND	10	cfu/g
Total yeast and mold	1,000	1,000	cfu/g

## Residual Solvents

GC-FID	Result	MRL*	Units
2-Methylbutane			
Acetone			
Benzene			
Butane			
Chloroform			
Ethanol			
Isobutane			
Isopropanol			
Methanol			
n-Heptane			
n-Hexane			
n-Pentane			
Propane			
Toluene			
Total Residual Solvents	<400	400	mg/kg

ND = Not Detected at the Reporting Limit  
 \*This is the minimum concentration of analyte reported.

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# Analytical Report

Tested for: Merkabah, Inc  
Sample ID: WV011018-(H) GG4  
Sample Type: Oil  
Lab Sample ID: C1801038-01A  
Date Received: 1/10/2018 Date Tested 1/11/2018



## Pesticides

LC-MS/MS	Result	MRL*	Units
Acequinocyl	ND	2.0	µg/g
Aldicarb	ND	0.40	µg/g
Avermectin B1a	ND	0.50	µg/g
Azoxystrobin	ND	0.20	µg/g
Bifenazate	ND	0.20	µg/g
Bifenthrin	ND	0.20	µg/g
Carbaryl	ND	0.20	µg/g
Chlorantraniliprole	ND	0.20	µg/g
Chlorpyrifos	ND	0.20	µg/g
Cyfluthrin	ND	1.0	µg/g
Daminozide	ND	1.0	µg/g
Diazinon	ND	0.20	µg/g
Dimethoate	ND	0.20	µg/g
Etoxazole	ND	0.20	µg/g
Fenoxycarb	ND	0.20	µg/g
Fipronil	ND	0.40	µg/g
Imazalil	ND	0.20	µg/g
Imidacloprid	ND	0.40	µg/g
Kresoxim-Methyl	ND	0.40	µg/g
Malathion	ND	0.20	µg/g
Methomyl	ND	0.40	µg/g
Myclobutanil	ND	0.10	µg/g
Paclobutrazol	ND	0.40	µg/g
Permethrin	ND	1.0	µg/g
Piperonyl butoxide	ND	0.20	µg/g
Propiconazole	ND	0.20	µg/g
Pyrethrin I	ND	0.60	µg/g
Pyrethrin II	ND	0.40	µg/g
Spinosyn A	ND	0.11	µg/g
Spinosyn D	ND	0.085	µg/g
Spiromesifen	ND	0.20	µg/g
Spirotetramat	ND	0.20	µg/g
Tebuconazole	ND	0.40	µg/g
Thiamethoxam	ND	0.20	µg/g
Trifloxystrobin	ND	0.20	µg/g

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Jerry Chaney, Lab Director 01/17/18

North Coast Laboratories/HQAL

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