

Analytical Report

Tested for: Merkabah, Inc
 Sample ID: WV-Clear (S)
 Sample Type: Concentrate
 Lab Sample ID: C1708040-01A
 Date Received: 8/7/2017

Date Tested 8/8/2017



Cannabinoid Potency

LC-DAD	Result	MRL*	Units
Cannabidiol (CBD)	0.187	0.14	%
Cannabidiolic Acid (CBDa)	ND	0.14	%
Cannabigerol (CBG)	1.76	0.14	%
Cannabigerolic Acid (CBGA)	ND	0.14	%
Cannabinol (CBN)	0.736	0.14	%
Tetrahydrocannabinol (Δ 9THC)	78.8	0.14	%
Tetrahydrocannabinolic Acid (THCa)	ND	0.14	%

Cannabinoid Summary

LC-DAD	Result	MRL*	Units
Total cannabinoids	81.4	NA	%
Total CBD equivalents	0.187	NA	%
Total THC equivalents	78.8	NA	%

Terpenes

GC-MS	Result	MRL*	Units
3-Carene	2.69	0.40	mg/g
Camphene	ND	0.40	mg/g
Caryophyllene oxide	0.513	0.40	mg/g
cis-Nerolidol	ND	0.40	mg/g
Eucalyptol	ND	0.40	mg/g
Geraniol	ND	0.40	mg/g
Guaiol	ND	0.40	mg/g
Isopulegol	ND	0.40	mg/g
Limonene	1.74	0.40	mg/g
Linalool	2.45	0.40	mg/g
Myrcene	8.44	0.40	mg/g
Ocimene	1.45	0.40	mg/g
Terpinolene	ND	0.40	mg/g
trans-Nerolidol	ND	0.40	mg/g
α -Bisabolol	2.69	0.40	mg/g
α -Humulene	3.36	0.40	mg/g
α -Pinene	3.85	0.40	mg/g
α -Terpinene	3.82	0.40	mg/g
β -Caryophyllene	9.57	0.40	mg/g
β -Pinene	3.64	0.40	mg/g
γ -Terpinene	ND	0.40	mg/g
Total Terpenes	44.2		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:

Jerry Chaney, Lab Director 08/10/17

Analytical Report

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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

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:

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

Certificate of Analysis

*Amendment to CoA 170616S026-002

Sample Name: Sour Diesel 2 (B0104)
 Tested for: W Vapes
 Sample ID: 170616S026
 Date Submitted: 06/16/2017
 Sample Type: Concentrate

Total Sample Weight: 1 Gram

Cannabinoid Test Results

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

Cannabinoid Summary

Total THC	Δ9THC+THCa	78.01 %
Total Potential Δ9THC	778.54 mg/g	77.85 %
Total CBD	CBD+CBDA	Trace
Total Potential CBD	Trace	Trace

Full Canabinoid Profile

THC	76.74 %
THCa	1.27 %
CBD	Trace
CBDA	Trace
CBN	1.10 %
CBDV	ND
CBDVa	ND
CBG	2.90 %
CBGa	Trace
THCV	0.51 %
Δ8 - THC	ND
CBC	2.17 %

Total Active Cannabinoids: 84.69 %

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry

	Reporting Limit
Acequinocyl	Not Detected 1
Abamectin	Not Detected 0.25
Bifenezate	Not Detected 0.1
Daminozide	Not Detected 0.5
Fenoxycarb	Not Detected 0.1
Imidacloprid	Not Detected 0.2
Myclobutanil	Not Detected 0.1
Pacllobutrazol	Not Detected 0.2
Pyrethrins	Not Detected 0.5
Spinosad	Not Detected 0.1
Spiromesifen	Not Detected 0.1
Spirotetramat	Not Detected 0.1

Microbiological Test Results

3M Petrifilm and plate counts for microbiological contamination

Total Yeast and Mold	<1,000 cfu/g	E. coli	ND
Pseudomonas	ND	Coliforms	<100 cfu/g
Total Aerobic Plate Count	<1,000 cfu/g	Salmonella	ND

Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g / %		mg/g / %
α Bisabolol	1.80 / 0.180	α Terpinene	0.00 / 0.000
α Pinene	0.00 / 0.000	Linalool	0.04 / 0.004
3 Carene	0.00 / 0.000	Limonene	0.00 / 0.000
Borneol	0.08 / 0.008	Myrcene	0.00 / 0.000
β Caryophyllene	0.30 / 0.030	Fenchol	0.00 / 0.000
Geraniol	0.01 / 0.001	α Phellandrene	0.00 / 0.000
α Humulene	0.17 / 0.017	Caryophyllene Oxide	0.28 / 0.028
Terpinolene	0.00 / 0.000	Terpineol	0.04 / 0.004
Valencene	0.00 / 0.000	β Pinene	0.00 / 0.000
Menthol	0.00 / 0.000	R-(+)-Pulegone	0.00 / 0.000
Nerolidol	0.08 / 0.008	Geranyl Acetate	0.00 / 0.000
Camphene	0.00 / 0.000	Citronellol	0.00 / 0.000
Eucalyptol	0.00 / 0.000	p-Cymene	0.00 / 0.000
α Cedrene	0.00 / 0.000	Ocimene	0.00 / 0.000
Camphor	0.00 / 0.000	Guaiol	0.04 / 0.004
(-)-Isopulegol	0.00 / 0.000	Phytol	2.10 / 0.210
Sabinene	0.00 / 0.000	Isoborneol	0.00 / 0.000

Total Terpene Concentration: 4.90 mg/g / 0.490 %

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

Propane	ND	Ethanol	ND
Methanol	ND	Isopropanol	ND
Isobutane	ND	Mercaptan	ND
2,2-Dimethylbutane	ND	2-Methylpentane	ND
3-Methylpentane	ND	Cyclohexane + Benzene	ND
Isopentane	ND	Neopentane	ND
n Butane	ND	n Heptane	ND
n Hexane	ND	n Pentane	ND

Sample Certification



Scan to verify at sclabs.com

Josh Wurzer
 Josh Wurzer, President

Certificate of Analysis

*Amendment to CoA 170606U033-012

Sample Name: Sour Diesel 1 (B0056)
 Tested for: W Vapes
 Sample ID: 170606U033
 Date Submitted: 06/07/2017
 Sample Type: Concentrate

Total Sample Weight: 1 Gram

Cannabinoid Test Results

Cannabinoid analysis utilizing High Performance Liquid Chromatography (HPLC, QSP 5-4-4-4)

Cannabinoid Summary

Total THC	Δ9THC+THCa	88.39 %
Total Potential Δ9THC	879.96 mg/g	88.00 %
Total CBD	CBD+CBDA	0.20 %
Total Potential CBD	2.00 mg/g	0.20 %

Full Canabinoid Profile

THC	85.18 %
THCa	3.21 %
CBD	0.20 %
CBDa	Trace
CBN	0.96 %
CBDV	ND
CBDVa	ND
CBG	0.97 %
CBGa	0.24 %
THCV	0.44 %
Δ8 - THC	ND
CBC	0.65 %

Total Active Cannabinoids: 91.85 %

Pesticide Test Results

Pesticide, Fungicide and plant growth regulator analysis utilizing HPLC-Mass Spectrometry

	Reporting Limit
Acequinocyl	Not Detected 1
Abamectin	Not Detected 0.25
Bifenezate	Not Detected 0.1
Daminozide	Not Detected 0.5
Fenoxycarb	Not Detected 0.1
Imidacloprid	Not Detected 0.2
Myclobutanil	Not Detected 0.1
Pacllobutrazol	Not Detected 0.2
Pyrethrins	Not Detected 0.5
Spinosad	Not Detected 0.1
Spiromesifen	Not Detected 0.1
Spirotetramat	Not Detected 0.1

Microbiological Test Results

3M Petrifilm and plate counts for microbiological contamination

Total Yeast and Mold	<1,000 cfu/g	E. coli	ND
Pseudomonas	ND	Coliforms	<100 cfu/g
Total Aerobic Plate Count	<1,000 cfu/g	Salmonella	ND

Terpene Test Results

Terpene analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

	mg/g / %		mg/g / %
α Bisabolol	0.51 / 0.051	α Terpinene	0.00 / 0.000
α Pinene	0.00 / 0.000	Linalool	0.08 / 0.008
3 Carene	0.00 / 0.000	Limonene	0.00 / 0.000
Borneol	0.02 / 0.002	Myrcene	0.00 / 0.000
β Caryophyllene	0.32 / 0.032	Fenchol	0.00 / 0.000
Geraniol	0.02 / 0.002	α Phellandrene	0.00 / 0.000
α Humulene	0.14 / 0.014	Caryophyllene Oxide	0.00 / 0.000
Terpinolene	0.00 / 0.000	Terpineol	0.05 / 0.005
Valencene	0.00 / 0.000	β Pinene	0.00 / 0.000
Menthol	0.00 / 0.000	R-(+)-Pulegone	0.00 / 0.000
Nerolidol	0.00 / 0.000	Geranyl Acetate	0.00 / 0.000
Camphene	0.00 / 0.000	Citronellol	0.00 / 0.000
Eucalyptol	0.00 / 0.000	p-Cymene	0.00 / 0.000
α Cedrene	0.00 / 0.000	Ocimene	0.00 / 0.000
Camphor	0.00 / 0.000	Guaiol	0.13 / 0.013
(-)-Isopulegol	0.00 / 0.000	Phytol	0.62 / 0.062
Sabinene	0.00 / 0.000	Isoborneol	0.00 / 0.000

Total Terpene Concentration: 1.90 mg/g / 0.190 %

Residual Solvent Test Results

Residual Solvent analysis utilizing Gas Chromatography - Flame Ionization Detection (GC - FID)

Propane	ND	Ethanol	ND
Methanol	ND	Isopropanol	ND
Isobutane	ND	Mercaptan	ND
2,2-Dimethylbutane	ND	2-Methylpentane	ND
3-Methylpentane	ND	Cyclohexane + Benzene	ND
Isopentane	ND	Neopentane	ND
n Butane	ND	n Heptane	ND
n Hexane	ND	n Pentane	ND

Sample Certification



Scan to verify at sclabs.com

Josh Wurzer
 Josh Wurzer, President