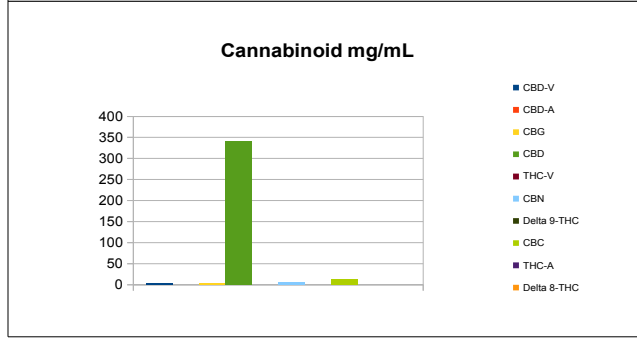


Sample Information			
Sample Identification	SOS CBD Tincture		
Laboratory Number	2019017160		
Batch Number	780		
Matrix	Tincture		
Analyzed Date	08/15/19		
Extraction Date	08/15/19		
Cannabinoid (HPLC)	mg/mL	mg/Bottle	%
Compound			
CBD-V	3.38	57.40	0.35%
CBD-A	ND	ND	ND
CBG	3.79	64.35	0.39%
CBD	340.55	5789.32	34.98%
THC-V	ND	ND	ND
CBN	5.34	90.74	0.55%
Delta 9-THC	ND	ND	ND
CBC	12.07	205.21	1.24%
THC-A	ND	ND	ND
Delta 8-THC	ND	ND	ND
Cannabinoids Total			
Max Active THC	ND	ND	ND
Max Active CBD	340.55	5789.32	34.98%
T. Active Cannabinoids	365.12	6207.02	37.51%
Total Cannabinoids	365.12	6207.02	37.51%

Max Active Ratios			
NA :1 CBD to THC			
NA :1 THC to CBD			



**Sample Image**

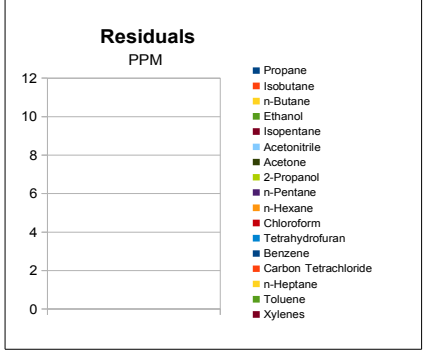


Micro Visual:	NOT TESTED
Percent Moisture	NOT TESTED

**Chemist: JW**  
**Report Expires: 11/14/19**

RL=Reporting Limit  
NA=Not Applicable  
NT=Not Tested  
ND=Non Detected  
TNTC=Too Numerous to Count

RS (GCMS-MS)	PPM	RL
Compound		
Propane	NT	5.0
Isobutane	NT	5.0
n-Butane	NT	5.0
Ethanol	NT	5.0
Isopentane	NT	5.0
Acetonitrile	NT	5.0
Acetone	NT	50.0
2-Propanol	NT	5.0
n-Pentane	NT	5.0
n-Hexane	NT	5.0
Chloroform	NT	5.0
Tetrahydrofuran	NT	5.0
Benzene	NT	5.0
Carbon Tetrachloride	NT	5.0
n-Heptane	NT	5.0
Toluene	NT	5.0
Xylenes	NT	10.0



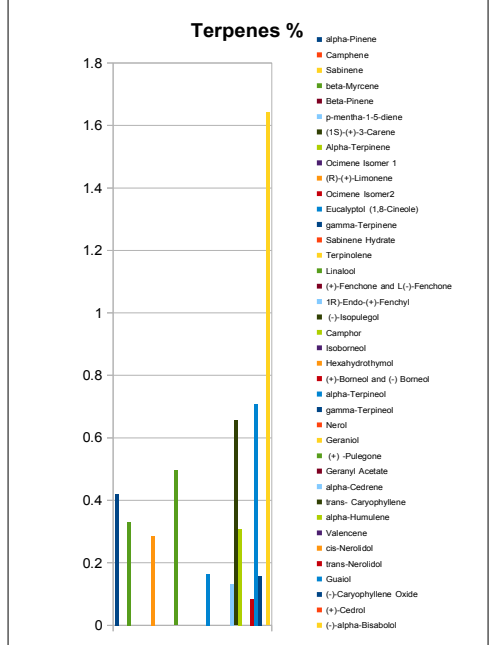
mL/Bottle	17
mg THC/Bottle	ND
mg CBD/Bottle	5789.32
(mg) total cannabinoids/bottle	6207.02

Metals	PPM	RL
Compound		
Lead	NT	0.018
Arsenic	NT	0.007
Cadmium	NT	0.004
Mercury	NT	0.020

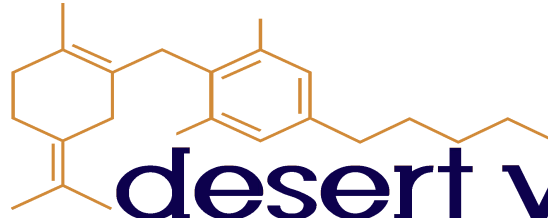
Microbial	CFU/g
Compound	
Enterobacteriaceae	NT
Coliform	NT
Ecoli	NT
Aerobic	NT
Yeast	NT
Mold	NT



Terpene (GC-MS)	mg/mL	mg/Bottle
Compound		
alpha-Pinene	0.42	7.14
Camphene	ND	ND
Sabinene	ND	ND
beta-Myrcene	0.33	5.63
Beta-Pinene	ND	ND
p-mentha-1-5-diene	ND	ND
(1S)-(+)-3-Carene	ND	ND
Alpha-Terpinene	ND	ND
Ocimene Isomer 1	ND	ND
(R)-(+)-Limonene	0.29	4.87
Ocimene Isomer2	ND	ND
Eucalyptol (1,8-Cineole)	ND	ND
gamma-Terpinene	ND	ND
Sabinene Hydrate	ND	ND
Terpinolene	ND	ND
Linalool	0.5	8.43
(+)-Fenchone and L(-)-Fenchone	ND	ND
1R)-Endo-(+)-Fenchyl	ND	ND
(-)-Isopulegol	ND	ND
Camphor	ND	ND
Isoborneol	ND	ND
Hexahydrothymol	ND	ND
(+)-Borneol and (-) Borneol	ND	ND
alpha-Terpineol	0.17	2.81
gamma-Terpineol	ND	ND
Nerol	ND	ND
Geraniol	ND	ND
(+)-Pulegone	ND	ND
Geranyl Acetate	ND	ND
alpha-Cedrene	0.13	2.22
trans-Caryophyllene	0.66	11.15
alpha-Humulene	0.31	5.25
Valencene	ND	ND
cis-Nerolidol	ND	ND
trans-Nerolidol	0.09	1.45
Guaiol	0.71	12.06
(-)-Caryophyllene Oxide	0.16	2.68
(+)-Cedrol	ND	ND
(-)-alpha-Bisabolol	1.64	27.90
<b>Total Terpenes</b>	<b>5.39</b>	<b>91.59</b>



Desert Valley Testing  
 51 W. Weldon Ave  
 Phoenix, Arizona 85013  
 Phone#: 480-788-6644  
 www.desertvalleytesting.com



Analysis Date: 08/15/19  
 Chemist: JW

# desert valley TESTING

## Quality Assurance Report

### Residual Solvents Quality Control Report GCMS Analysis

LRB			Opening CCV				Closing CCV			
Analyte List	Recovery (ppm)	Reporting Limit	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %
Propane	NA	5.0 ppm	Propane	NA	100.00	NA	Propane	NA	100.00	NA
Isobutane	NA	5.0 ppm	Isobutane	98.05	100.00	98	Isobutane	NA	100.00	NA
n-Butane	NA	5.0 ppm	n-Butane	110.95	100.00	111	n-Butane	NA	100.00	NA
Ethanol	NA	5.0 ppm	Ethanol	93.84	100.00	94	Ethanol	NA	100.00	NA
Isopentane	NA	5.0 ppm	Isopentane	NA	100.00	NA	Isopentane	NA	100.00	NA
Acetonitrile	NA	5.0 ppm	Acetonitrile	90.65	100.00	91	Acetonitrile	NA	100.00	NA
Acetone	NA	50.0 ppm	Acetone	87.68	100.00	88	Acetone	NA	100.00	NA
2-Propanol	NA	5.0 ppm	2-Propanol	86.71	100.00	87	2-Propanol	NA	100.00	NA
n-Pentane	NA	5.0 ppm	n-Pentane	73.37	100.00	78	n-Pentane	NA	100.00	NA
n-Hexane	NA	5.0 ppm	n-Hexane	83.13	100.00	83	n-Hexane	NA	100.00	NA
Chloroform	NA	5.0 ppm	Chloroform	94.14	100.00	94	Chloroform	NA	100.00	NA
Tetrahydrofuran	NA	5.0 ppm	Tetrahydrofuran	90.07	100.00	90	Tetrahydrofuran	NA	100.00	NA
Benzene	NA	5.0 ppm	Benzene	92.74	100.00	93	Benzene	NA	100.00	NA
Carbon Tetrachloride	NA	5.0 ppm	Carbon Tetrachloride	89.42	100.00	89	Carbon Tetrachloride	NA	100.00	NA
n-Heptane	NA	5.0 ppm	n-Heptane	88.87	100.00	89	n-Heptane	NA	100.00	NA
Toluene	NA	5.0 ppm	Toluene	96.26	100.00	96	Toluene	NA	100.00	NA
Xylenes	NA	10.0 ppm	Xylenes	207.37	200.00	104	Xylenes	NA	100.00	NA

### Potency Quality Control Report HPLC Analysis

LRB			Opening CCV				Closing CCV			
Analyte List	Recovery (ppm)	Reporting Limit	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %
CBD-V	<2.0	2.0 ppm	CBD-V	108.46	100.00	108	CBD-V	268.44	250.00	107
CBD-A	<10.0	10.0 ppm	CBD-A	104.13	100.00	104	CBD-A	258.42	250.00	103
CBG	<2.0	2.0 ppm	CBG	19.70	20.00	99	CBG	48.65	50.00	97
CBD	<10.0	10.0 ppm	CBD	101.39	100.00	101	CBD	249.71	250.00	100
THC-V	<2.0	2.0 ppm	THC-V	104.47	100.00	104	THC-V	258.98	250.00	104
CBN	<10.0	10.0 ppm	CBN	102.33	100.00	102	CBN	256.21	250.00	102
Delta 9-THC	<10.0	10.0 ppm	Delta 9-THC	98.28	100.00	98	Delta 9-THC	242.45	250.00	97
CBIC	<2.0	2.0 ppm	CBIC	103.67	100.00	104	CBIC	261.34	250.00	105
THC-A	<10.0	10.0 ppm	THC-A	98.92	100.00	97	THC-A	243.49	250.00	97
Delta 8-THC	<100.0	100.0 ppm	Delta 8-THC	107.66	100.00	108	Delta 8-THC	267.27	250.00	107

### Terpene Quality Control Report GCMS Analysis

LRB			Opening CCV				Closing CCV			
Analyte List	Recovery (ppm)	Reporting Limit	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %
alpha-Pinene	<1.0	1.0 ppm	alpha-Pinene	50.75	50.00	102	alpha-Pinene	NA	50.00	NA
Camphene	<1.0	1.0 ppm	Camphene	48.07	50.00	96	Camphene	NA	50.00	NA
Sabinene	<1.0	1.0 ppm	Sabinene	44.68	50.00	89	Sabinene	NA	50.00	NA
beta-Myrcene	<1.0	1.0 ppm	beta-Myrcene	46.97	50.00	94	beta-Myrcene	NA	50.00	NA
Beta-Pinene	<1.0	1.0 ppm	Beta-Pinene	44.90	50.00	90	Beta-Pinene	NA	50.00	NA
p-mentha-1-5-diene	<1.0	1.0 ppm	p-mentha-1-5-diene	44.49	50.00	89	p-mentha-1-5-diene	NA	50.00	NA
(1S)-(+)-3-Carene	<1.0	1.0 ppm	(1S)-(+)-3-Carene	42.41	50.00	85	(1S)-(+)-3-Carene	NA	50.00	NA
Alpha-Terpinene	<1.0	1.0 ppm	Alpha-Terpinene	44.27	50.00	89	Alpha-Terpinene	NA	50.00	NA
Ocimene Isomer 1	<1.0	1.0 ppm	Ocimene Isomer 1	49.77	50.00	100	Ocimene Isomer 1	NA	50.00	NA
(R)-(+)-Limonene	<1.0	1.0 ppm	(R)-(+)-Limonene	35.37	50.00	71	(R)-(+)-Limonene	NA	50.00	NA
Ocimene Isomer2	<1.0	1.0 ppm	Ocimene Isomer2	53.24	50.00	106	Ocimene Isomer2	NA	50.00	NA
Eucalyptol (1,8-Cineol)	<1.0	1.0 ppm	Eucalyptol (1,8-Cineol)	47.77	50.00	96	Eucalyptol (1,8-Cineol)	NA	50.00	NA
gamma-Terpinene	<1.0	1.0 ppm	gamma-Terpinene	39.60	50.00	79	gamma-Terpinene	NA	50.00	NA
Sabinene Hydrate	<1.0	1.0 ppm	Sabinene Hydrate	51.55	50.00	103	Sabinene Hydrate	NA	50.00	NA
Terpinolene	<1.0	1.0 ppm	Terpinolene	41.58	50.00	83	Terpinolene	NA	50.00	NA
Linalool	<1.0	1.0 ppm	Linalool	63.20	50.00	126	Linalool	NA	50.00	NA
(+)-Fenchone and L(-)-Fenchone	<1.0	1.0 ppm	(+)-Fenchone and L(-)-Fenchone	91.49	100.00	91	(+)-Fenchone and L(-)-Fenchone	NA	100.00	NA
1R)-Endo-(+)-Fenchyl	<1.0	1.0 ppm	1R)-Endo-(+)-Fenchyl	48.82	50.00	98	1R)-Endo-(+)-Fenchyl	NA	50.00	NA
(-)-Isopulegol	<1.0	1.0 ppm	(-)-Isopulegol	55.37	50.00	111	(-)-Isopulegol	NA	50.00	NA
Camphor	<1.0	1.0 ppm	Camphor	98.43	100.00	98	Camphor	NA	100.00	NA
Isoborneol	<1.0	1.0 ppm	Isoborneol	54.32	50.00	109	Isoborneol	NA	50.00	NA
Hexahydrothymol	<1.0	1.0 ppm	Hexahydrothymol	45.41	50.00	91	Hexahydrothymol	NA	50.00	NA
(+)-Borneol and (-) Borneol	<1.0	1.0 ppm	(+)-Borneol and (-) Borneol	50.65	50.00	101	(+)-Borneol and (-) Borneol	NA	50.00	NA
alpha-Terpineol	<1.0	1.0 ppm	alpha-Terpineol	48.43	50.00	97	alpha-Terpineol	NA	50.00	NA
gamma-Terpineol	<1.0	1.0 ppm	gamma-Terpineol	54.71	50.00	109	gamma-Terpineol	NA	50.00	NA
Nerol	<1.0	1.0 ppm	Nerol	52.37	50.00	105	Nerol	NA	50.00	NA
Geraniol	<1.0	1.0 ppm	Geraniol	52.82	50.00	106	Geraniol	NA	50.00	NA
(+)-Pulegone	<1.0	1.0 ppm	(+)-Pulegone	56.20	50.00	112	(+)-Pulegone	NA	50.00	NA
Geranyl Acetate	<1.0	1.0 ppm	Geranyl Acetate	35.56	50.00	71	Geranyl Acetate	NA	50.00	NA
alpha-Cedrene	<1.0	1.0 ppm	alpha-Cedrene	45.35	50.00	91	alpha-Cedrene	NA	50.00	NA
trans-Caryophyllene	<1.0	1.0 ppm	trans-Caryophyllene	40.27	50.00	81	trans-Caryophyllene	NA	50.00	NA
alpha-Humulene	<1.0	1.0 ppm	alpha-Humulene	54.00	50.00	108	alpha-Humulene	NA	50.00	NA
Valencene	<1.0	1.0 ppm	Valencene	52.50	50.00	105	Valencene	NA	50.00	NA
cis-Nerolidol	<1.0	1.0 ppm	cis-Nerolidol	47.43	50.00	95	cis-Nerolidol	NA	50.00	NA
trans-Nerolidol	<1.0	1.0 ppm	trans-Nerolidol	44.84	50.00	90	trans-Nerolidol	NA	50.00	NA
Guaiol	<1.0	1.0 ppm	Guaiol	55.01	50.00	110	Guaiol	NA	50.00	NA
(-)-Caryophyllene Oxide	<1.0	1.0 ppm	(-)-Caryophyllene Oxide	52.80	50.00	106	(-)-Caryophyllene Oxide	NA	50.00	NA
(+)-Cedrol	<1.0	1.0 ppm	(+)-Cedrol	47.90	50.00	96	(+)-Cedrol	NA	50.00	NA
(-)-alpha-Bisabolol	<1.0	1.0 ppm	(-)-alpha-Bisabolol	60.40	50.00	121	(-)-alpha-Bisabolol	NA	50.00	NA