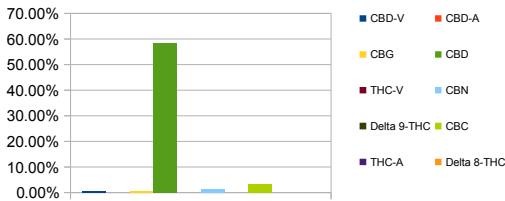


Sample Information		
Sample Identification	3Chi Happy Oil	
Laboratory Number	2019016327	
Batch Number	20190801CBD05	
Matrix	Concentrate	
Analyzed Date	08/05/19	
Extraction Date	08/05/16	
Cannabinoid (HPLC)	%	mg/g
Compound		
CBD-V	0.70%	6.98
CBD-A	ND	ND
CBG	0.59%	5.93
CBD	58.22%	582.24
THC-V	ND	ND
CBN	1.48%	14.76
Delta 9-THC	ND	ND
CBC	3.23%	32.31
THC-A	ND	ND
Delta 8-THC	ND	ND
Cannabinoids Total		
Max Active THC	ND	ND
Max Active CBD	58.22%	582.24
T. Active Cannabinoids	64.22%	642.23
Total Cannabinoids	64.22%	642.23

#### Max Active Ratios

NA :1 CBD to THC  
 NA :1 THC to CBD

#### Cannabinoid %



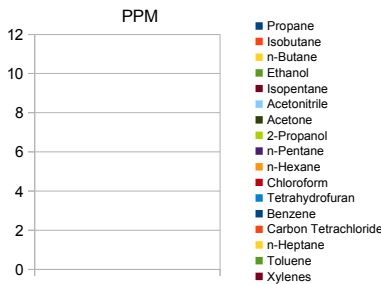
#### Sample Image



Micro Visual: NOT TESTED  
 Percent Moisture NOT TESTED

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

#### Residuals



#### g/medible

NA

#### mg THC/medible

NA

#### mg CBD/medible

NA

#### (mg) total cannabinoids/medible

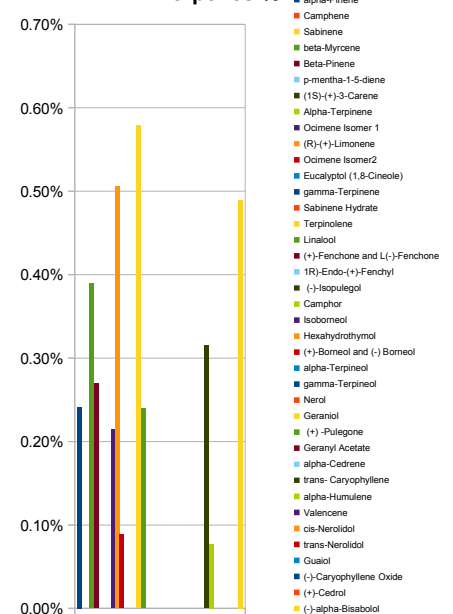
NA

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/g
Compound		
alpha-Pinene	0.24%	2.41
Camphene	ND	ND
Sabinene	ND	ND
beta-Myrcene	0.39%	3.89
Beta-Pinene	0.27%	2.69
p-mentha-1-5-diene	ND	ND
(1S)-(+)-3-Carene	ND	ND
Alpha-Terpinene	ND	ND
Ocimene Isomer 1	0.21%	2.14
(R)-(+)-Limonene	0.51%	5.06
Ocimene Isomer2	0.09%	0.88
Eucalyptol (1,8-Cineole)	ND	ND
gamma-Terpinene	ND	ND
Sabinene Hydrate	ND	ND
Terpinolene	0.58%	5.79
Linalool	0.24%	2.40
(+)-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	ND	ND
gamma-Terpineol	ND	ND
Nerol	ND	ND
Geraniol	ND	ND
(+) -Pulegone	ND	ND
Geranyl Acetate	ND	ND
alpha-Cedrene	ND	ND
trans- Caryophyllene	0.32%	3.15
alpha-Humulene	0.08%	0.77
Valencene	ND	ND
cis-Nerolidol	ND	ND
trans-Nerolidol	ND	ND
Guaiol	ND	ND
(-) Caryophyllene Oxide	ND	ND
(+) Cedrol	ND	ND
(-) alpha-Bisabolol	0.49%	4.89
Total Terpenes	3.41%	34.08

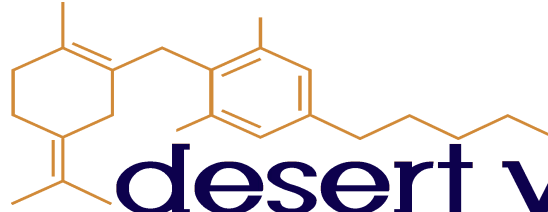
#### Terpenes %



Chemist: JW  
 Report Expires: 11/04/19

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

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



Analysis Date: 08/05/19  
 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	<5.0	5.0 ppm	Propane	NA	100.00	NA	Propane	NA	100.00	NA
Isobutane	<5.0	5.0 ppm	Isobutane	92.44	100.00	92	Isobutane	NA	100.00	NA
n-Butane	<5.0	5.0 ppm	n-Butane	102.06	100.00	102	n-Butane	NA	100.00	NA
Ethanol	<5.0	5.0 ppm	Ethanol	92.14	100.00	92	Ethanol	NA	100.00	NA
Isopentane	<5.0	5.0 ppm	Isopentane	NA	100.00	NA	Isopentane	NA	100.00	NA
Acetonitrile	<5.0	5.0 ppm	Acetonitrile	103.83	100.00	104	Acetonitrile	NA	100.00	NA
Acetone	<50.0	50.0 ppm	Acetone	115.29	100.00	115	Acetone	NA	100.00	NA
2-Propanol	<5.0	5.0 ppm	2-Propanol	94.25	100.00	94	2-Propanol	NA	100.00	NA
n-Pentane	<5.0	5.0 ppm	n-Pentane	124.30	100.00	124	n-Pentane	NA	100.00	NA
n-Hexane	<5.0	5.0 ppm	n-Hexane	118.45	100.00	118	n-Hexane	NA	100.00	NA
Chloroform	<5.0	5.0 ppm	Chloroform	91.29	100.00	91	Chloroform	NA	100.00	NA
Tetrahydrofuran	<5.0	5.0 ppm	Tetrahydrofuran	107.79	100.00	108	Tetrahydrofuran	NA	100.00	NA
Benzene	<5.0	5.0 ppm	Benzene	113.71	100.00	114	Benzene	NA	100.00	NA
Carbon Tetrachloride	<5.0	5.0 ppm	Carbon Tetrachloride	93.75	100.00	94	Carbon Tetrachloride	NA	100.00	NA
n-Heptane	<5.0	5.0 ppm	n-Heptane	119.22	100.00	119	n-Heptane	NA	100.00	NA
Toluene	<5.0	5.0 ppm	Toluene	114.12	100.00	114	Toluene	NA	100.00	NA
Xylenes	<10.0	10.0 ppm	Xylenes	223.88	200.00	112	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	105.74	100.00	106	CBD-V	256.21	250.00	102
CBD-A	<10.0	10.0 ppm	CBD-A	100.37	100.00	100	CBD-A	241.28	250.00	97
CBG	<2.0	2.0 ppm	CBG	20.43	20.00	102	CBG	52.66	50.00	105
CBD	<10.0	10.0 ppm	CBD	105.08	100.00	105	CBD	250.85	250.00	100
THC-V	<2.0	2.0 ppm	THC-V	100.11	100.00	100	THC-V	249.30	250.00	100
CBN	<10.0	10.0 ppm	CBN	102.97	100.00	103	CBN	246.64	250.00	99
Delta 9-THC	<10.0	10.0 ppm	Delta 9-THC	99.91	100.00	100	Delta 9-THC	239.33	250.00	96
CBG	<2.0	2.0 ppm	CBG	103.26	100.00	103	CBG	254.83	250.00	102
THC-A	<10.0	10.0 ppm	THC-A	98.38	100.00	98	THC-A	240.17	250.00	96
Delta 8-THC	<100.0	100.0 ppm	Delta 8-THC	102.31	100.00	102	Delta 8-THC	253.94	250.00	102

### 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	45.94	50.00	92	alpha-Pinene	NA	50.00	NA
Camphene	<1.0	1.0 ppm	Camphene	43.29	50.00	87	Camphene	NA	50.00	NA
Sabinene	<1.0	1.0 ppm	Sabinene	40.03	50.00	80	Sabinene	NA	50.00	NA
Beta-Myrcene	<1.0	1.0 ppm	Beta-Myrcene	40.57	50.00	81	Beta-Myrcene	NA	50.00	NA
Beta-Pinene	<1.0	1.0 ppm	Beta-Pinene	43.95	50.00	88	Beta-Pinene	NA	50.00	NA
p-mentha-1-5-diene	<1.0	1.0 ppm	p-mentha-1-5-diene	42.38	50.00	85	p-mentha-1-5-diene	NA	50.00	NA
(1S)-(+)-3-Carene	<1.0	1.0 ppm	(1S)-(+)-3-Carene	42.29	50.00	85	(1S)-(+)-3-Carene	NA	50.00	NA
Alpha-Terpinene	<1.0	1.0 ppm	Alpha-Terpinene	41.98	50.00	84	Alpha-Terpinene	NA	50.00	NA
Ocimene Isomer 1	<1.0	1.0 ppm	Ocimene Isomer 1	42.25	50.00	85	Ocimene Isomer 1	NA	50.00	NA
(R)-(+)-Limonene	<1.0	1.0 ppm	(R)-(+)-Limonene	34.95	50.00	70	(R)-(+)-Limonene	NA	50.00	NA
Ocimene Isomer2	<1.0	1.0 ppm	Ocimene Isomer2	45.94	50.00	92	Ocimene Isomer2	NA	50.00	NA
Eucalyptol (1,8-Cineol)	<1.0	1.0 ppm	Eucalyptol (1,8-Cineol)	38.03	50.00	76	Eucalyptol (1,8-Cineol)	NA	50.00	NA
gamma-Terpinene	<1.0	1.0 ppm	gamma-Terpinene	38.93	50.00	78	gamma-Terpinene	NA	50.00	NA
Sabinene Hydrate	<1.0	1.0 ppm	Sabinene Hydrate	42.02	50.00	84	Sabinene Hydrate	NA	50.00	NA
Terpinolene	<1.0	1.0 ppm	Terpinolene	40.92	50.00	82	Terpinolene	NA	50.00	NA
Linalool	<1.0	1.0 ppm	Linalool	50.58	50.00	101	Linalool	NA	50.00	NA
(+)-Fenchone and L(-)-Fenchone	<1.0	1.0 ppm	(+)-Fenchone and L(-)-Fenchone	81.40	100.00	81	(+)-Fenchone and L(-)-Fenchone	NA	100.00	NA
1R)-Endo-(+)-Fenchyl	<1.0	1.0 ppm	1R)-Endo-(+)-Fenchyl	39.74	50.00	79	1R)-Endo-(+)-Fenchyl	NA	50.00	NA
(-)-Isopulegol	<1.0	1.0 ppm	(-)-Isopulegol	46.43	50.00	93	(-)-Isopulegol	NA	50.00	NA
Camphor	<1.0	1.0 ppm	Camphor	83.94	100.00	84	Camphor	NA	100.00	NA
Isoborneol	<1.0	1.0 ppm	Isoborneol	43.14	50.00	86	Isoborneol	NA	50.00	NA
Hexahydrothymol	<1.0	1.0 ppm	Hexahydrothymol	36.53	50.00	73	Hexahydrothymol	NA	50.00	NA
(+)-Borneol and (-) Borneol	<1.0	1.0 ppm	(+)-Borneol and (-) Borneol	41.41	50.00	83	(+)-Borneol and (-) Borneol	NA	50.00	NA
alpha-Terpineol	<1.0	1.0 ppm	alpha-Terpineol	39.47	50.00	79	alpha-Terpineol	NA	50.00	NA
gamma-Terpineol	<1.0	1.0 ppm	gamma-Terpineol	43.11	50.00	86	gamma-Terpineol	NA	50.00	NA
Nerol	<1.0	1.0 ppm	Nerol	41.14	50.00	82	Nerol	NA	50.00	NA
Geraniol	<1.0	1.0 ppm	Geraniol	37.10	50.00	74	Geraniol	NA	50.00	NA
(+)-Pulegone	<1.0	1.0 ppm	(+)-Pulegone	42.41	50.00	85	(+)-Pulegone	NA	50.00	NA
Geranyl Acetate	<1.0	1.0 ppm	Geranyl Acetate	37.17	50.00	74	Geranyl Acetate	NA	50.00	NA
alpha-Cedrene	<1.0	1.0 ppm	alpha-Cedrene	39.44	50.00	79	alpha-Cedrene	NA	50.00	NA
trans-Caryophyllene	<1.0	1.0 ppm	trans-Caryophyllene	35.78	50.00	72	trans-Caryophyllene	NA	50.00	NA
alpha-Humulene	<1.0	1.0 ppm	alpha-Humulene	46.41	50.00	93	alpha-Humulene	NA	50.00	NA
Valencene	<1.0	1.0 ppm	Valencene	39.85	50.00	80	Valencene	NA	50.00	NA
cis-Nerolidol	<1.0	1.0 ppm	cis-Nerolidol	39.74	50.00	79	cis-Nerolidol	NA	50.00	NA
trans-Nerolidol	<1.0	1.0 ppm	trans-Nerolidol	38.37	50.00	77	trans-Nerolidol	NA	50.00	NA
Guaiol	<1.0	1.0 ppm	Guaiol	40.86	50.00	82	Guaiol	NA	50.00	NA
(-)-Caryophyllene Oxide	<1.0	1.0 ppm	(-)-Caryophyllene Oxide	42.50	50.00	85	(-)-Caryophyllene Oxide	NA	50.00	NA
(+)-Cedrol	<1.0	1.0 ppm	(+)-Cedrol	39.49	50.00	79	(+)-Cedrol	NA	50.00	NA
(-)-alpha-Bisabolol	<1.0	1.0 ppm	(-)-alpha-Bisabolol	47.99	50.00	96	(-)-alpha-Bisabolol	NA	50.00	NA