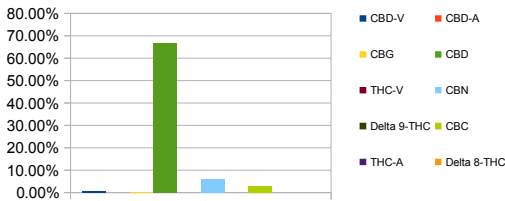


Sample Information		
Sample Identification	3Chi Sleep Oil	
Laboratory Number	2019016329	
Batch Number	20190801CBD07	
Matrix	Concentrate	
Analyzed Date	08/05/19	
Extraction Date	08/05/16	
Cannabinoid (HPLC)	%	mg/g
Compound		
CBD-V	0.48%	4.80
CBD-A	ND	ND
CBG	0.22%	2.21
CBD	66.82%	668.24
THC-V	ND	ND
CBN	5.78%	57.85
Delta 9-THC	ND	ND
CBC	2.79%	27.89
THC-A	ND	ND
Delta 8-THC	ND	ND
Cannabinoids Total		
Max Active THC	ND	ND
Max Active CBD	66.82%	668.24
T. Active Cannabinoids	76.10%	760.98
Total Cannabinoids	76.10%	760.98

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

Cannabinoid %



Sample Image



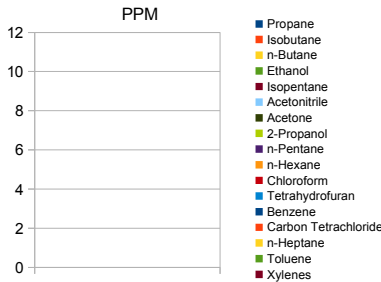
Micro Visual: NOT TESTED
Percent Moisture
 NOT TESTED

Chemist: JW
Report Expires: 11/04/19

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

Residuals



g/medible

NA

mg THC/medible

NA

mg CBD/medible

NA

(mg) total cannabinoids/medible

NA

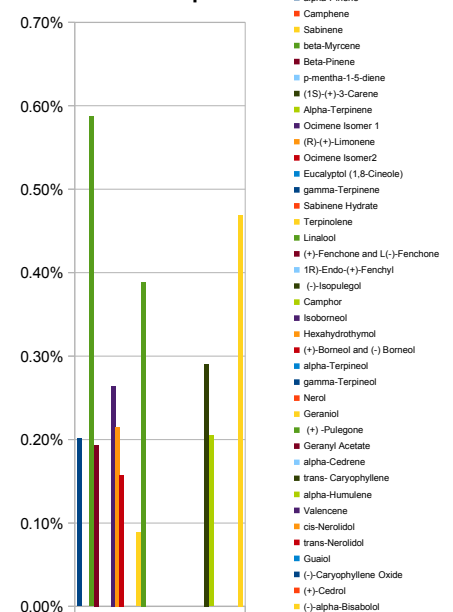
Metals	PPM	RL
Compound		
Lead	NT	0.018
Arsenic	NT	0.007
Cadmium	NT	0.004
Mercury	NT	0.020

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

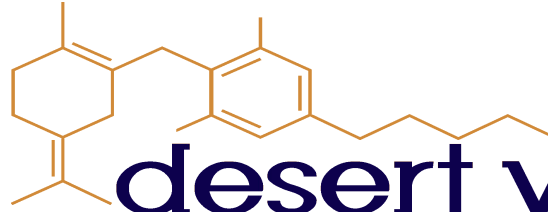


Terpene (GC-MS)	%	mg/g
Compound		
alpha-Pinene	0.20%	2.02
Camphene	ND	ND
Sabinene	ND	ND
beta-Myrcene	0.59%	5.87
Beta-Pinene	0.19%	1.93
p-mentha-1-5-diene	ND	ND
(1S)-(+)-3-Carene	ND	ND
Alpha-Terpinene	ND	ND
Ocimene Isomer 1	0.26%	2.64
(R)-(+)-Limonene	0.21%	2.15
Ocimene Isomer2	0.16%	1.58
Eucalyptol (1,8-Cineole)	ND	ND
gamma-Terpinene	ND	ND
Sabinene Hydrate	ND	ND
Terpinolene	0.09%	0.88
Linalool	0.39%	3.89
(+)-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	0.29%	2.91
alpha-Humulene	0.21%	2.05
Valencene	ND	ND
cis-Nerolidol	ND	ND
trans-Nerolidol	ND	ND
Guaiol	ND	ND
(-)Caryophyllene Oxide	ND	ND
(+) -Cedrol	ND	ND
(-)alpha-Bisabolol	0.47%	4.69
Total Terpenes	3.06%	30.61

Terpenes %



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