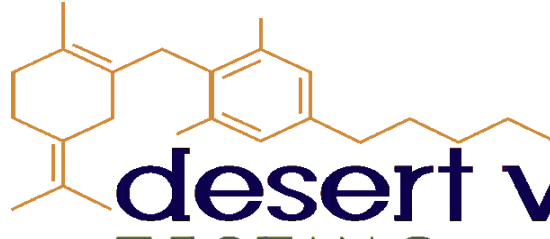


Desert Valley Testing  
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Analysis Date: 09/05/19  
 Chemist: EG

# desert valley TESTING

## Quality Assurance Report

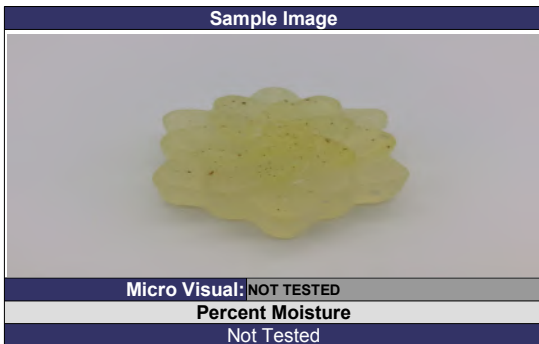
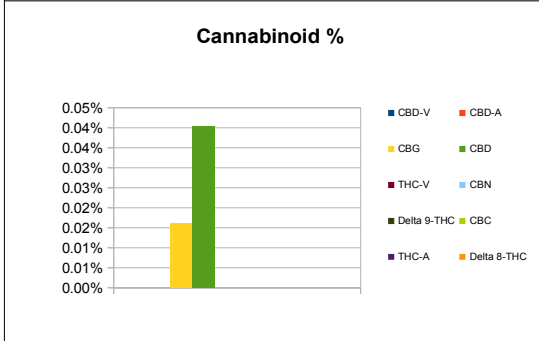
Residual Solvents Quality Control Report											
GCMS Analysis											
LRB			Opening CCV				Closing CCV				
Analyte List	Recovery (ppm)	Reporting Limit	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	
Propane	<5.0	5.0 ppm	Propane	NA	100.00	NA	Propane	NA	100.00	NA	
Isobutane	<5.0	5.0 ppm	Isobutane	NA	100.00	NA	Isobutane	NA	100.00	NA	
n-Butane	<5.0	5.0 ppm	n-Butane	NA	100.00	NA	n-Butane	NA	100.00	NA	
Ethanol	<5.0	5.0 ppm	Ethanol	91.34	100.00	111	Ethanol	NA	100.00	NA	
Isopentane	<5.0	5.0 ppm	Isopentane	129.07	100.00	NA	Isopentane	NA	100.00	NA	
Acetonitrile	<5.0	5.0 ppm	Acetonitrile	94.20	100.00	94	Acetonitrile	NA	100.00	NA	
Acetone	<50.0	50.0 ppm	Acetone	99.60	100.00	100	Acetone	NA	100.00	NA	
2-Propanol	<5.0	5.0 ppm	2-Propanol	85.94	100.00	86	2-Propanol	NA	100.00	NA	
n-Pentane	<5.0	5.0 ppm	n-Pentane	96.25	100.00	96	n-Pentane	NA	100.00	NA	
n-Hexane	<5.0	5.0 ppm	n-Hexane	96.91	100.00	97	n-Hexane	NA	100.00	NA	
Chloroform	<5.0	5.0 ppm	Chloroform	85.91	100.00	86	Chloroform	NA	100.00	NA	
Tetrahydrofuran	<5.0	5.0 ppm	Tetrahydrofuran	97.84	100.00	98	Tetrahydrofuran	NA	100.00	NA	
Benzene	<5.0	5.0 ppm	Benzene	110.26	100.00	110	Benzene	NA	100.00	NA	
Carbon Tetrachloride	<5.0	5.0 ppm	Carbon Tetrachloride	87.60	100.00	88	Carbon Tetrachloride	NA	100.00	NA	
n-Heptane	<5.0	5.0 ppm	n-Heptane	88.03	100.00	88	n-Heptane	NA	100.00	NA	
Toluene	<5.0	5.0 ppm	Toluene	110.71	100.00	111	Toluene	NA	100.00	NA	
Xylenes	<10.0	10.0 ppm	Xylenes	209.76	200.00	105	Xylenes	NA	200.00	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	112.29	100.00	112	CBD-V	264.12	250.00	106	
CBD-A	<10.0	10.0 ppm	CBD-A	99.57	100.00	100	CBD-A	251.22	250.00	100	
CBG	<2.0	2.0 ppm	CBG	22.10	20.00	111	CBG	53.30	50.00	107	
CBD	<10.0	10.0 ppm	CBD	93.67	100.00	94	CBD	235.12	250.00	94	
THC-V	<2.0	2.0 ppm	THC-V	105.06	100.00	105	THC-V	250.74	250.00	100	
CBN	<10.0	10.0 ppm	CBN	100.11	100.00	100	CBN	255.37	250.00	102	
Delta 9-THC	<10.0	10.0 ppm	Delta 9-THC	91.58	100.00	92	Delta 9-THC	230.68	250.00	92	
CBC	<2.0	2.0 ppm	CBC	112.32	100.00	112	CBC	266.31	250.00	107	
THC-A	<10.0	10.0 ppm	THC-A	95.89	100.00	96	THC-A	243.92	250.00	98	
Delta 8-THC	<100.0	100.0 ppm	Delta 8-THC	107.90	100.00	108	Delta 8-THC	254.86	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	48.47	50.00	97	alpha-Pinene	NA	50.00	NA	
Camphene	<1.0	1.0 ppm	Camphene	44.74	50.00	89	Camphene	NA	50.00	NA	
Sabinene	<1.0	1.0 ppm	Sabinene	46.23	50.00	92	Sabinene	NA	50.00	NA	
beta-Myrcene	<1.0	1.0 ppm	beta-Myrcene	42.70	50.00	85	beta-Myrcene	NA	50.00	NA	
Beta-Pinene	<1.0	1.0 ppm	Beta-Pinene	47.07	50.00	94	Beta-Pinene	NA	50.00	NA	
p-mentha-1-5-diene	<1.0	1.0 ppm	p-mentha-1-5-diene	47.83	50.00	96	p-mentha-1-5-diene	NA	50.00	NA	
(1S)-(+)-3-Carene	<1.0	1.0 ppm	(1S)-(+)-3-Carene	45.40	50.00	91	(1S)-(+)-3-Carene	NA	50.00	NA	
Alpha-Terpinene	<1.0	1.0 ppm	Alpha-Terpinene	53.79	50.00	108	Alpha-Terpinene	NA	50.00	NA	
Ocimene Isomer 1	<1.0	1.0 ppm	Ocimene Isomer 1	44.78	50.00	90	Ocimene Isomer 1	NA	50.00	NA	
(R)-(+)-Limonene	<1.0	1.0 ppm	(R)-(+)-Limonene	43.36	50.00	87	(R)-(+)-Limonene	NA	50.00	NA	
Ocimene Isomer2	<1.0	1.0 ppm	Ocimene Isomer2	44.24	50.00	88	Ocimene Isomer2	NA	50.00	NA	
Eucalyptol (1,8-Cineol)	<1.0	1.0 ppm	Eucalyptol (1,8-Cineol)	45.07	50.00	90	Eucalyptol (1,8-Cineol)	NA	50.00	NA	
gamma-Terpinene	<1.0	1.0 ppm	gamma-Terpinene	45.96	50.00	92	gamma-Terpinene	NA	50.00	NA	
Sabinene Hydrate	<1.0	1.0 ppm	Sabinene Hydrate	36.57	50.00	73	Sabinene Hydrate	NA	50.00	NA	
Terpinolene	<1.0	1.0 ppm	Terpinolene	45.22	50.00	90	Terpinolene	NA	50.00	NA	
Linalool	<1.0	1.0 ppm	Linalool	55.13	50.00	110	Linalool	NA	50.00	NA	
(+)-Fenchone and L(-)-Fenchone	<1.0	1.0 ppm	(+)-Fenchone and L(-)-Fenchone	93.10	100.00	93	(+)-Fenchone and L(-)-Fenchone	NA	100.00	NA	
(1R)-Endo-(+)-Fenchyl	<1.0	1.0 ppm	(1R)-Endo-(+)-Fenchyl	47.73	50.00	95	(1R)-Endo-(+)-Fenchyl	NA	50.00	NA	
(-)-Isopulegol	<1.0	1.0 ppm	(-)-Isopulegol	51.04	50.00	102	(-)-Isopulegol	NA	50.00	NA	
Camphor	<1.0	1.0 ppm	Camphor	95.75	100.00	96	Camphor	NA	100.00	NA	
Isoborneol	<1.0	1.0 ppm	Isoborneol	50.98	50.00	102	Isoborneol	NA	50.00	NA	
Hexahydrothymol	<1.0	1.0 ppm	Hexahydrothymol	47.86	50.00	96	Hexahydrothymol	NA	50.00	NA	
(+)-Borneol and (-) Borneol	<1.0	1.0 ppm	(+)-Borneol and (-) Borneol	49.79	50.00	100	(+)-Borneol and (-) Borneol	NA	50.00	NA	
alpha-Terpineol	<1.0	1.0 ppm	alpha-Terpineol	50.00	50.00	100	alpha-Terpineol	NA	50.00	NA	
gamma-Terpineol	<1.0	1.0 ppm	gamma-Terpineol	48.95	50.00	98	gamma-Terpineol	NA	50.00	NA	
Nerol	<1.0	1.0 ppm	Nerol	53.09	50.00	106	Nerol	NA	50.00	NA	
Geraniol	<1.0	1.0 ppm	Geraniol	66.70	50.00	133	Geraniol	NA	50.00	NA	
(+)-Pulegone	<1.0	1.0 ppm	(+)-Pulegone	64.16	50.00	128	(+)-Pulegone	NA	50.00	NA	
Geranyl Acetate	<1.0	1.0 ppm	Geranyl Acetate	33.28	50.00	67	Geranyl Acetate	NA	50.00	NA	
alpha-Cedrene	<1.0	1.0 ppm	alpha-Cedrene	47.61	50.00	95	alpha-Cedrene	NA	50.00	NA	
trans-Caryophyllene	<1.0	1.0 ppm	trans-Caryophyllene	45.02	50.00	90	trans-Caryophyllene	NA	50.00	NA	
alpha-Humulene	<1.0	1.0 ppm	alpha-Humulene	47.95	50.00	96	alpha-Humulene	NA	50.00	NA	
Valencene	<1.0	1.0 ppm	Valencene	50.07	50.00	100	Valencene	NA	50.00	NA	
cis-Nerolidol	<1.0	1.0 ppm	cis-Nerolidol	46.58	50.00	93	cis-Nerolidol	NA	50.00	NA	
trans-Nerolidol	<1.0	1.0 ppm	trans-Nerolidol	44.48	50.00	89	trans-Nerolidol	NA	50.00	NA	
Guaiol	<1.0	1.0 ppm	Guaiol	57.97	50.00	116	Guaiol	NA	50.00	NA	
(-)-Caryophyllene Oxide	<1.0	1.0 ppm	(-)-Caryophyllene Oxide	53.20	50.00	106	(-)-Caryophyllene Oxide	NA	50.00	NA	
(+)-Cedrol	<1.0	1.0 ppm	(+)-Cedrol	53.75	50.00	108	(+)-Cedrol	NA	50.00	NA	
(-)-alpha-Bisabolol	<1.0	1.0 ppm	(-)-alpha-Bisabolol	51.91	50.00	104	(-)-alpha-Bisabolol	NA	50.00	NA	

Sample Information		
Sample Identification	CBD Flower Soap	
Laboratory Number	2019018792	
Batch Number	1	
Matrix	Topical	
Analyzed Date	09/05/19	
Extraction Date	09/05/19	
Cannabinoid (HPLC)	%	mg/g
Compound		
CBD-V	ND	ND
CBD-A	ND	ND
CBG	0.02%	0.16
CBD	0.04%	0.40
THC-V	ND	ND
CBN	ND	ND
Delta 9-THC	ND	ND
CBC	ND	ND
THC-A	ND	ND
Delta 8-THC	ND	ND
Cannabinoids Total		
Max Active THC	ND	ND
Max Active CBD	0.04%	0.40
T. Active Cannabinoids	0.06%	0.56
Total Cannabinoids	0.06%	0.56

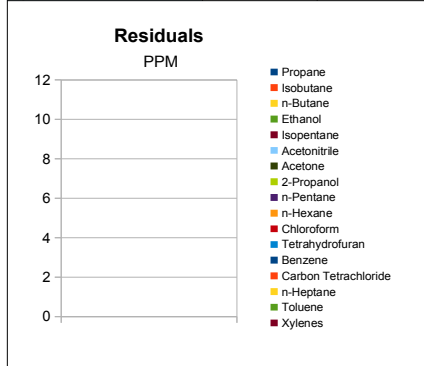
Max Active Ratios		
NA :1 CBD to THC		
ND :1 THC to CBD		



Chemist: EG  
 Report Expires: 12/04/19

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

RS (GCMS-HS)	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



<b>g/topical</b>	<b>80.18</b>
<b>mg THC/topical</b>	<b>ND</b>
<b>mg CBD/topical</b>	<b>32.28</b>
<b>(mg) total cannabinoids/topical</b>	<b>45.25</b>

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	ND	ND
Camphene	ND	ND
Sabinene	ND	ND
beta-Myrcene	ND	ND
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	ND	ND
Ocimene Isomer2	ND	ND
Eucalyptol (1,8-Cineole)	ND	ND
gamma-Terpinene	ND	ND
Sabinene Hydrate	ND	ND
Terpinolene	ND	ND
Linalool	ND	ND
(+)-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	ND	ND
alpha-Humulene	0.02%	0.20
Valencene	ND	ND
cis-Nerolidol	ND	ND
trans-Nerolidol	ND	ND
Guaiaol	ND	ND
(-)-Caryophyllene Oxide	ND	ND
(+)-Cedrol	ND	ND
(-)-alpha-Bisabolol	ND	ND
<b>Total Terpenes</b>	<b>0.02%</b>	<b>0.2</b>

