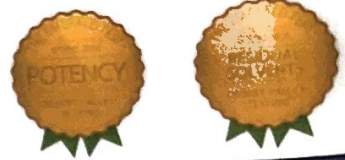
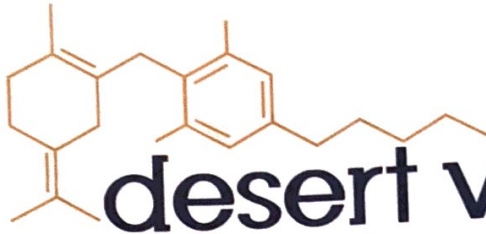


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Analysis Date: 07/17/18
 Chemist: JG
 Lab Manager Review: BE
 Lab Director Review: TH

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Quality Assurance Report

Residual Solvents Quality Control Report														
GCMS Analysis														
Opening CCV						Closing CCV			Sample Duplicate					
LRB	Recovery (ppm)	Reporting Limit	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Sample Recovery ppm	Duplicate Recovery ppm	RPD <=20%
Ethane	<20.0	20.0 ppm	Ethane	NA	100.00	NA	Ethane	NA	100.00	NA	Ethane	NA	NA	NA
Propane	<5.0	5.0 ppm	Propane	NA	100.00	NA	Propane	NA	100.00	NA	Propane	NA	NA	NA
Isobutane	<5.0	5.0 ppm	Isobutane	NA	100.00	NA	Isobutane	NA	100.00	NA	Isobutane	NA	NA	NA
Butane	<5.0	5.0 ppm	Butane	NA	100.00	NA	Butane	NA	100.00	NA	Butane	NA	NA	NA
Ethanol	<5.0	5.0 ppm	Ethanol	92.99	100.00	107	Ethanol	NA	100.00	NA	Ethanol	NA	NA	NA
Isopentane	<5.0	5.0 ppm	Isopentane	107.38	100.00	130	Isopentane	NA	100.00	NA	Isopentane	NA	NA	NA
Acetone	<50.0	50.0 ppm	Acetone	129.79	100.00	93	Acetone	NA	100.00	NA	Acetone	NA	NA	NA
2-Propanol	<5.0	5.0 ppm	2-Propanol	93.17	100.00	93	2-Propanol	NA	100.00	NA	2-Propanol	NA	NA	NA
Hexane	<5.0	5.0 ppm	Hexane	123.20	100.00	123	Hexane	NA	100.00	NA	Hexane	NA	NA	NA
Heptane	<5.0	5.0 ppm	Heptane	136.81	100.00	137	Heptane	NA	100.00	NA	Heptane	NA	NA	NA

Potency Quality Control Report														
HPLC Analysis														
Opening CCV						Closing CCV			Sample Duplicate					
LRB	Recovery (ppm)	Reporting Limit	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Sample Recovery %	Duplicate Recovery %	RPD <=20%
CBD-V	<2.0	2.0 ppm	CBD-V	9.11	10.00	91	CBD-V	46.57	50.00	93	CBD-V	ND	ND	NA
CBD-A	<10.0	10.0 ppm	CBD-A	45.94	50.00	92	CBD-A	233.94	250.00	94	CBD-A	ND	ND	NA
CBG	<2.0	2.0 ppm	CBG	8.59	10.00	86	CBG	48.05	50.00	96	CBG	ND	ND	NA
CBD	<10.0	10.0 ppm	CBD	46.29	50.00	93	CBD	234.90	250.00	94	CBD	83.79%	81.72%	2.51
THC-V	<2.0	2.0 ppm	THC-V	8.84	10.00	88	THC-V	47.88	50.00	96	THC-V	ND	ND	NA
CBN	<10.0	10.0 ppm	CBN	46.64	50.00	93	CBN	263.57	250.00	105	CBN	ND	ND	NA
Delta 9-THC	<10.0	10.0 ppm	Delta 9-THC	47.11	50.00	94	Delta 9-THC	260.24	250.00	104	Delta 9-THC	ND	ND	NA
CBC	<2.0	2.0 ppm	CBC	8.73	10.00	87	CBC	42.35	50.00	85	CBC	ND	ND	NA
THC-A	<10.0	10.0 ppm	THC-A	46.50	50.00	93	THC-A	248.77	250.00	100	THC-A	ND	ND	NA
Delta 8-THC	<10.0	10.0 ppm	Delta 8-THC	176.84	200.00	88	Delta 8-THC	510.04	500.00	102	Delta 8-THC	ND	ND	NA

Terpene Quality Control Report														
GCMS Analysis														
Opening CCV						Closing CCV			Sample Duplicate					
LRB	Recovery (ppm)	Reporting Limit	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Recovery (ppm)	True Value (ppm)	Recovery %	Analyte List	Sample Recovery %	Duplicate Recovery %	RPD <=20%
alpha-Pinene	<1.0	1.0 ppm	alpha-Pinene	49.86	50.00	100	alpha-Pinene	48.44	50.00	97	alpha-Pinene	NA	NA	NA
Camphene	<1.0	1.0 ppm	Camphene	51.15	50.00	102	Camphene	50.97	50.00	102	Camphene	NA	NA	NA
Sabinene	<1.0	1.0 ppm	Sabinene	56.12	50.00	112	Sabinene	57.68	50.00	115	Sabinene	NA	NA	NA
beta-Myrcene	<1.0	1.0 ppm	beta-Myrcene	58.19	50.00	116	beta-Myrcene	65.12	50.00	130	beta-Myrcene	NA	NA	NA
Beta-Pinene	<1.0	1.0 ppm	Beta-Pinene	52.49	50.00	105	Beta-Pinene	53.05	50.00	107	Beta-Pinene	NA	NA	NA
p-mentha-1,5-diene	<1.0	1.0 ppm	p-mentha-1,5-diene	57.91	50.00	113	p-mentha-1,5-diene	53.48	50.00	106	p-mentha-1,5-diene	NA	NA	NA
(1S)-(+)-3-Carene	<1.0	1.0 ppm	(1S)-(+)-3-Carene	51.52	50.00	103	(1S)-(+)-3-Carene	56.79	50.00	114	(1S)-(+)-3-Carene	NA	NA	NA
Alpha-Terpinene	<1.0	1.0 ppm	Alpha-Terpinene	47.99	50.00	96	Alpha-Terpinene	48.54	50.00	97	Alpha-Terpinene	NA	NA	NA
Ocimene Isomer 1	<1.0	1.0 ppm	Ocimene Isomer 1	52.66	50.00	105	Ocimene Isomer 1	57.96	50.00	116	Ocimene Isomer 1	NA	NA	NA
(R)-(+)-Limonene	<1.0	1.0 ppm	(R)-(+)-Limonene	54.85	50.00	110	(R)-(+)-Limonene	57.01	50.00	114	(R)-(+)-Limonene	NA	NA	NA
Ocimene Isomer 2	<1.0	1.0 ppm	Ocimene Isomer 2	55.10	50.00	110	Ocimene Isomer 2	60.98	50.00	122	Ocimene Isomer 2	NA	NA	NA
Eucalyptol (1,8-Cineole)	<1.0	1.0 ppm	Eucalyptol (1,8-Cineole)	53.31	50.00	107	Eucalyptol (1,8-Cineole)	60.63	50.00	121	Eucalyptol (1,8-Cineole)	NA	NA	NA
gamma-Terpinene	<1.0	1.0 ppm	gamma-Terpinene	51.32	50.00	103	gamma-Terpinene	55.42	50.00	111	gamma-Terpinene	NA	NA	NA
Sabinene Hydrate	<1.0	1.0 ppm	Sabinene Hydrate	47.47	50.00	95	Sabinene Hydrate	56.78	50.00	114	Sabinene Hydrate	NA	NA	NA
Terpinolene	<1.0	1.0 ppm	Terpinolene	51.98	50.00	104	Terpinolene	56.57	50.00	113	Terpinolene	NA	NA	NA
Linalool	<1.0	1.0 ppm	Linalool	49.55	50.00	99	Linalool	56.23	50.00	112	Linalool	NA	NA	NA
(+)-Fenchone and (-)-Fenchone	<1.0	1.0 ppm	(+)-Fenchone and (-)-Fenchone	105.00	100.00	105	(+)-Fenchone and (-)-Fenchone	119.78	100.00	120	(+)-Fenchone and (-)-Fenchone	NA	NA	NA
1R)-Endo-(+)-Fenchyl	<1.0	1.0 ppm	1R)-Endo-(+)-Fenchyl	55.76	50.00	112	1R)-Endo-(+)-Fenchyl	64.18	50.00	128	1R)-Endo-(+)-Fenchyl	NA	NA	NA
(-)-Isopulegol	<1.0	1.0 ppm	(-)-Isopulegol	53.97	50.00	108	(-)-Isopulegol	57.74	50.00	116	(-)-Isopulegol	NA	NA	NA
Camphor	<1.0	1.0 ppm	Camphor	109.56	100.00	110	Camphor	125.49	100.00	125	Camphor	NA	NA	NA
Isoborneol	<1.0	1.0 ppm	Isoborneol	57.90	50.00	114	Isoborneol	65.46	50.00	131	Isoborneol	NA	NA	NA
Hexahydrothymol	<1.0	1.0 ppm	Hexahydrothymol	57.14	50.00	114	Hexahydrothymol	64.96	50.00	130	Hexahydrothymol	NA	NA	NA
(+)-Borneol and (-)-Borneol	<1.0	1.0 ppm	(+)-Borneol and (-)-Borneol	57.23	50.00	114	(+)-Borneol and (-)-Borneol	64.37	50.00	129	(+)-Borneol and (-)-Borneol	NA	NA	NA
alpha-Terpineol	<1.0	1.0 ppm	alpha-Terpineol	53.86	50.00	108	alpha-Terpineol	61.65	50.00	123	alpha-Terpineol	NA	NA	NA
gamma-Terpineol	<1.0	1.0 ppm	gamma-Terpineol	52.31	50.00	105	gamma-Terpineol	60.70	50.00	121	gamma-Terpineol	NA	NA	NA
Nerol	<1.0	1.0 ppm	Nerol	60.73	50.00	101	Nerol	57.20	50.00	114	Nerol	NA	NA	NA
Geraniol	<1.0	1.0 ppm	Geraniol	53.32	50.00	107	Geraniol	62.99	50.00	126	Geraniol	NA	NA	NA
(+)-Pulegone	<1.0	1.0 ppm	(+)-Pulegone	50.55	50.00	102	(+)-Pulegone	56.97	50.00	114	(+)-Pulegone	NA	NA	NA
Geranyl Acetate	<1.0	1.0 ppm	Geranyl Acetate	50.89	50.00	106	Geranyl Acetate	51.76	50.00	104	Geranyl Acetate	NA	NA	NA
alpha-Cedrene	<1.0	1.0 ppm	alpha-Cedrene	52.99	50.00	108	alpha-Cedrene	59.29	50.00	119	alpha-Cedrene	NA	NA	NA
trans-Caryophyllene	<1.0	1.0 ppm	trans-Caryophyllene	54.55	50.00	109	trans-Caryophyllene	61.69	50.00	123	trans-Caryophyllene	NA	NA	NA
alpha-Humulene	<1.0	1.0 ppm	alpha-Humulene	56.14	50.00	112	alpha-Humulene	62.90	50.00	126	alpha-Humulene	NA	NA	NA
Valencene	<1.0	1.0 ppm	Valencene	49.72	50.00	99	Valencene	54.77	50.00	110	Valencene	NA	NA	NA
cis-Nerolidol	<1.0	1.0 ppm	cis-Nerolidol	52.14	50.00	104	cis-Nerolidol	57.46	50.00	115	cis-Nerolidol	NA	NA	NA
trans-Nerolidol	<1.0	1.0 ppm	trans-Nerolidol	51.78	50.00	104	trans-Nerolidol	57.20	50.00	114	trans-Nerolidol	NA	NA	NA
Guaiol	<1.0	1.0 ppm	Guaiol	57.65	50.00	115	Guaiol	63.66	50.00	127	Guaiol	NA	NA	NA
(-)-Caryophyllene Oxide	<1.0	1.0 ppm	(-)-Caryophyllene Oxide	56.37	50.00	117	(-)-Caryophyllene Oxide	62.00	50.00	124	(-)-Caryophyllene Oxide	NA	NA	NA
(+)-Cedrol	<1.0	1.0 ppm	(+)-Cedrol	57.87	50.00	116	(+)-Cedrol	64.59	50.00	129	(+)-Cedrol	NA	NA	NA
(-)-alpha-Bisabolol	<1.0	1.0 ppm	(-)-alpha-Bisabolol	51.39	50.00	103	(-)-alpha-Bisabolol	57.74	50.00	115	(-)-alpha-Bisabolol	NA	NA	NA