

Sample Name: **Cactus CO2 Oil Primary**
 Tested for: **OM Extracts**
Compliance Concentrate

Laboratory ID: 18F0049-01

Matrix: Extracts and Concentrates

Sample Metrc ID: 1A4010300014ADD000003491

Lot # NA

Date Sampled: 06/21/18 00:00

Batch RFID: 1A4010300014ADD000003490

Date Accepted: 06/21/18

Batch Size: 2724 (g)

Results Valid Until: 06/21/19



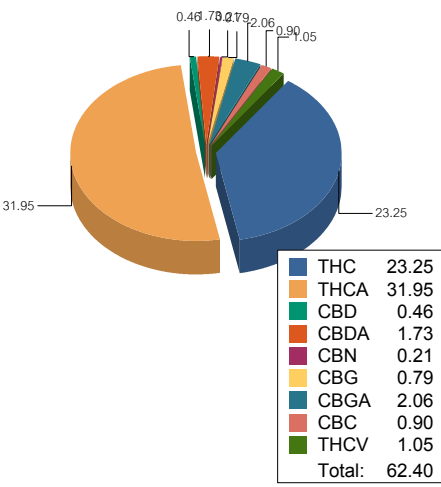
Potency Analysis

Date Extracted: 06/25/18

Analysis Method/SOP: Potency

Date Analyzed: 06/25/18

* - ORELAP certified analyte

Cannabinoids	% weight	mg/g	Cannabinoids Profile																				
Total THC ((THCA*0.877)+d9)	51.26	512.6	 <table border="1"> <tr><td>THC</td><td>23.25</td></tr> <tr><td>THCA</td><td>31.95</td></tr> <tr><td>CBD</td><td>0.46</td></tr> <tr><td>CBDA</td><td>1.73</td></tr> <tr><td>CBN</td><td>0.21</td></tr> <tr><td>CBG</td><td>0.79</td></tr> <tr><td>CBGA</td><td>2.06</td></tr> <tr><td>CBC</td><td>0.90</td></tr> <tr><td>THCV</td><td>1.05</td></tr> <tr><td>Total</td><td>62.40</td></tr> </table>	THC	23.25	THCA	31.95	CBD	0.46	CBDA	1.73	CBN	0.21	CBG	0.79	CBGA	2.06	CBC	0.90	THCV	1.05	Total	62.40
THC	23.25																						
THCA	31.95																						
CBD	0.46																						
CBDA	1.73																						
CBN	0.21																						
CBG	0.79																						
CBGA	2.06																						
CBC	0.90																						
THCV	1.05																						
Total	62.40																						
Total CBD ((CBDA*0.877)+CBD)	1.98	19.8																					
d9-THC (d9-Tetrahydrocannabinol)*	23.25	232.5																					
d8-THC (d8-Tetrahydrocannabinol)*	< LOQ	< LOQ																					
THCA (d9-Tetrahydrocannabinolic Acid)*	31.95	319.5																					
CBD (Cannabidiol)*	0.46	4.6																					
CBDA (Cannabidiolic Acid)*	1.73	17.3																					
CBN (Cannabinol)*	0.21	2.1																					
CBG (Cannabigerol)*	0.79	7.9																					
CBGA (Cannabigerolic Acid)	2.06	20.6																					
CBDV (Cannabidivarin)*	< LOQ	< LOQ																					
CBDVA (Cannabidivarinic Acid)	< LOQ	< LOQ																					
CBC (Cannabichromene)*	0.90	9																					
THCV (Tetrahydrocannabivarin)	1.05	10.5																					
Total Cannabinoids	62.40	624																					

<LOQ - Results below the Limit of Quantitation - Compound not detected



Brian Weigel
Lab Director

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Sample Name: **Cactus CO2 Oil Duplicate**
 Tested for: **OM Extracts**
Compliance Concentrate

Laboratory ID: 18F0049-02

Matrix: Extracts and Concentrates

Sample Metrc ID: 1A4010300014ADD000003491

Lot # NA

Date Sampled: 06/21/18 00:00

Batch RFID: 1A4010300014ADD000003490

Date Accepted: 06/21/18

Batch Size: 2724 (g)

Results Valid Until: 06/21/19



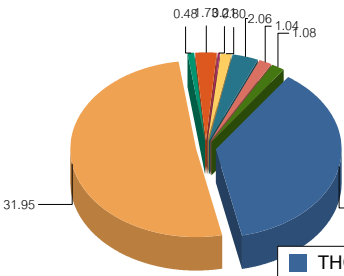
Potency Analysis

Date Extracted: 06/25/18

Analysis Method/SOP: Potency

Date Analyzed: 06/25/18

* - ORELAP certified analyte

Cannabinoids	% weight	mg/g	Cannabinoids Profile																				
Total THC ((THCA*0.877)+d9)	51.02	510.2	 <table border="1"> <tr><td>THC</td><td>23.00</td></tr> <tr><td>THCA</td><td>31.95</td></tr> <tr><td>CBD</td><td>0.48</td></tr> <tr><td>CBDA</td><td>1.73</td></tr> <tr><td>CBN</td><td>0.21</td></tr> <tr><td>CBG</td><td>0.80</td></tr> <tr><td>CBGA</td><td>2.06</td></tr> <tr><td>CBC</td><td>1.04</td></tr> <tr><td>THCV</td><td>1.08</td></tr> <tr><td>Total</td><td>62.34</td></tr> </table>	THC	23.00	THCA	31.95	CBD	0.48	CBDA	1.73	CBN	0.21	CBG	0.80	CBGA	2.06	CBC	1.04	THCV	1.08	Total	62.34
THC	23.00																						
THCA	31.95																						
CBD	0.48																						
CBDA	1.73																						
CBN	0.21																						
CBG	0.80																						
CBGA	2.06																						
CBC	1.04																						
THCV	1.08																						
Total	62.34																						
Total CBD ((CBDA*0.877)+CBD)	2.00	20																					
d9-THC (d9-Tetrahydrocannabinol)*	23.00	230																					
d8-THC (d8-Tetrahydrocannabinol)*	< LOQ	< LOQ																					
THCA (d9-Tetrahydrocannabinolic Acid)*	31.95	319.5																					
CBD (Cannabidiol)*	0.48	4.8																					
CBDA (Cannabidiolic Acid)*	1.73	17.3																					
CBN (Cannabinol)*	0.21	2.1																					
CBG (Cannabigerol)*	0.80	8																					
CBGA (Cannabigerolic Acid)	2.06	20.6																					
CBDV (Cannabidivarin)*	< LOQ	< LOQ																					
CBDVA (Cannabidivarinic Acid)	< LOQ	< LOQ																					
CBC (Cannabichromene)*	1.04	10.4																					
THCV (Tetrahydrocannabivarin)	1.08	10.8																					
Total Cannabinoids	62.34	623.4																					

<LOQ - Results below the Limit of Quantitation - Compound not detected

Sample Name: **Cactus CO2 Oil**

Sample Metrc ID: 1A4010300014ADD000003491

	Primary Result	Duplicate Result	Average	% RPD	Pass/Fail (<20%RPD)
	%	%	%		
Total THC ((THCA*0.877)+d9)	51.26	51.02	51.14	0.469	PASS


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Sample Name: Cactus CO2 Oil Primary	Date Sampled: 06/21/18 00:00
Tested for: OM Extracts Compliance Concentrate	Date Accepted: 06/21/18
Laboratory ID: 18F0049-01	Results Valid Until: 06/21/19
Matrix: Extracts and Concentrates	Sample Metrc ID: 1A4010300014ADD000003491
Lot # NA	Batch RFID: 1A4010300014ADD000003490
	Batch Size: 2724 (g)

Terpene Analysis

Date Extracted: 06/25/18

Analysis Method/SOP: Terpenes

Date Analyzed: 06/26/18

Analyte	Result (%)	LOQ	Analyte	Result	LOQ
alpha Pinene	< LOQ	0.095	Myrcene	0.167	0.095
alpha Phellandrene	< LOQ	0.095	3-Carene	< LOQ	0.095
alpha Terpinene	< LOQ	0.095	Limonene	0.119	0.095
Terpinolene	0.863	0.095	Linalool	< LOQ	0.095
Fenchol	< LOQ	0.095	Borneol	< LOQ	0.095
Terpineol	0.135	0.095	Geraniol	< LOQ	0.095
alpha Humulene	0.636	0.095	beta Caryophyllene	1.529	0.095
Caryophyllene Oxide	0.280	0.095	alpha Bisabolol	0.444	0.095
Camphene	< LOQ	0.095	beta Pinene	< LOQ	0.095
Ocimene	0.110	0.095	Sabinene	< LOQ	0.095
Camphor	< LOQ	0.095	Isoborneol	< LOQ	0.095
Menthol	< LOQ	0.095	alpha Cedrene	< LOQ	0.095
Nerolidol	0.274	0.095	R-(+)-Pulegone	< LOQ	0.095
Eucalyptol	< LOQ	0.095	p-Cymene	< LOQ	0.095
(-)-Isopulegol	< LOQ	0.095	Geranyl Acetate	< LOQ	0.095
Guaiol	0.357	0.095	Valencene	0.481	0.095
Phytol	0.365	0.095	Citronellol	< LOQ	0.095
gamma-Terpinene	< LOQ	0.095			
			Total Terpenes	5.760 %	

<LOQ - Results below the Limit of Quantitation - Compound not detected

Terpene Analysis is not ORELAP Accredited.

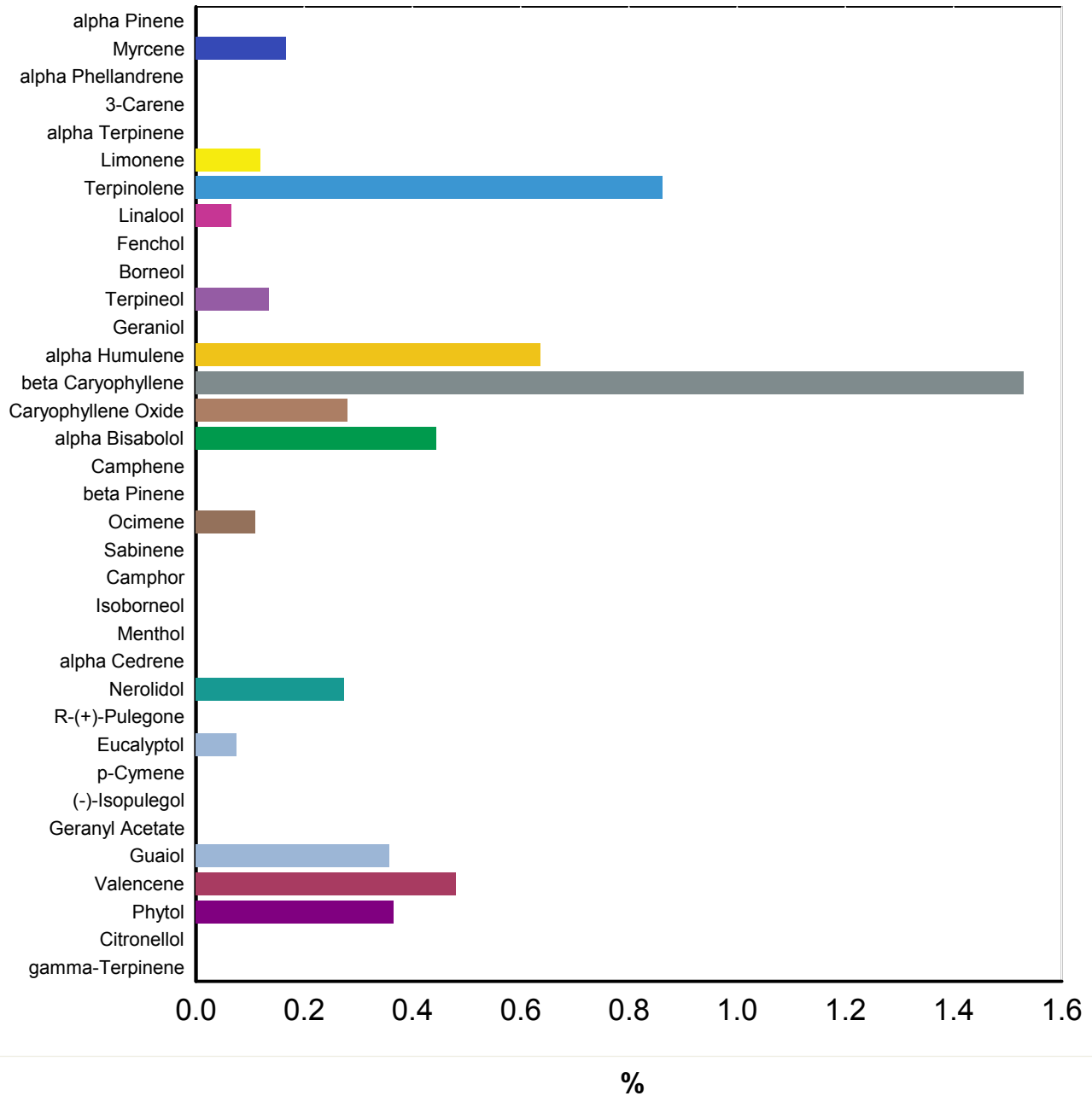


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Lab Director

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Sample Name: Cactus CO2 Oil Prima	Date Sampled: 06/21/18 00:00
Tested for: OM Extracts	Date Accepted: 06/21/18 16:13
Compliance Concentrate	Results Valid Until: 06/21/19
Laboratory ID: 18F0049-01 Matrix: Extracts and	Client/Metric ID: 1A4010300014ADD000003491

Terpene Profile




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Lab Director

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Sample Name: **Cactus CO2 Oil Primary** Date Sampled: **06/21/18 00:00**
 Tested for: **OM Extracts** Date Accepted: **06/21/18**
Compliance Concentrate Results Valid Until: **06/21/19**

Laboratory ID: **18F0049-01** Sample Metrc ID: **1A4010300014ADD000003491**
 Matrix: **Extracts and Concentrates** Batch RFID: **1A4010300014ADD000003490**
 Lot # **NA** Batch Size: **2724 (g)**

Pesticide Analysis in ppm

Date Extracted: 06/25/18 Analysis Method/SOP: Pesticides
 Date Analyzed: 06/26/18 Results above the action levels are highlighted in red #.

Analyte	Result	Action Level	LOQ	Analyte	Result	Action Level	LOQ
Abamectin	< LOQ	0.5	0.241	Acephate	< LOQ	0.4	0.193
Acequinocyl	< LOQ	2	0.966	Acetamiprid	< LOQ	0.2	0.097
Aldicarb	< LOQ	0.4	0.193	Azoxystrobin	< LOQ	0.2	0.097
Bifenazate	< LOQ	0.2	0.097	Bifenthrin	< LOQ	0.2	0.097
Boscalid	< LOQ	0.4	0.193	Carbaryl	< LOQ	0.2	0.097
Carbofuran	< LOQ	0.2	0.097	Chlorantraniliprole	< LOQ	0.2	0.097
Chlorfenapyr	< LOQ	1	0.483	Chlorpyrifos	< LOQ	0.2	0.097
Clofentezine	< LOQ	0.2	0.097	Cyfluthrin	< LOQ	1	0.483
Cypermethrin	< LOQ	1	0.483	Daminozide	< LOQ	1	0.483
DDVP (Dichlorvos)	< LOQ	1	0.483	Diazinon	< LOQ	0.2	0.097
Dimethoate	< LOQ	0.2	0.097	Ethoprophos	< LOQ	0.2	0.097
Etofenprox	< LOQ	0.4	0.193	Etoxazole	< LOQ	0.2	0.097
Fenoxycarb	< LOQ	0.2	0.097	Fenpyroximate	< LOQ	0.4	0.193
Fipronil	< LOQ	0.4	0.193	Fonicamid	< LOQ	1	0.483
Fludioxonil	< LOQ	0.4	0.193	Hexythiazox	< LOQ	1	0.483
Imazalil	< LOQ	0.2	0.097	Imidacloprid	< LOQ	0.4	0.193
Kresoxim-methyl	< LOQ	0.4	0.193	Malathion	< LOQ	0.2	0.097
Metalaxyl	< LOQ	0.2	0.097	Methiocarb	< LOQ	0.2	0.097
Methomyl	< LOQ	0.4	0.193	Methyl parathion	< LOQ	0.2	0.097
MGK-264	< LOQ	0.2	0.097	Myclobutanil	< LOQ	0.2	0.097
Naled	< LOQ	0.5	0.241	Oxamyl	< LOQ	1	0.483
Paclobutrazol	< LOQ	0.4	0.193	Permethrins (total)	< LOQ	0.2	0.097
Phosmet	< LOQ	0.2	0.097	Piperonyl butoxide	< LOQ	2	0.483
Prallethrin	< LOQ	0.2	0.097	Propiconazole	< LOQ	0.4	0.193
Propoxur	< LOQ	0.2	0.097	Pyrethrins (total)	< LOQ	1	0.483
Pyridaben	< LOQ	0.2	0.097	Spinosad	< LOQ	0.2	0.097
Spiromesifen	< LOQ	0.2	0.097	Spirotetramat	< LOQ	0.2	0.097
Spiroxamine	< LOQ	0.4	0.193	Tebuconazole	< LOQ	0.4	0.193
Thiacloprid	< LOQ	0.2	0.097	Thiamethoxam	< LOQ	0.2	0.097
Trifloxystrobin	< LOQ	0.2	0.097				

<LOQ - Results below the Limit of Quantitation - Compound not detected



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Sample Name: **Cactus CO2 Oil Duplicate** Date Sampled: **06/21/18 00:00**
 Tested for: **OM Extracts** Date Accepted: **06/21/18**
Compliance Concentrate Results Valid Until: **06/21/19**

Laboratory ID: **18F0049-02** Sample Metrc ID: **1A4010300014ADD000003491**
 Matrix: **Extracts and Concentrates** Batch RFID: **1A4010300014ADD000003490**
 Lot # **NA** Batch Size: **2724 (g)**

Pesticide Analysis in ppm

Date Extracted: 06/25/18 Analysis Method/SOP: Pesticides
 Date Analyzed: 06/26/18 Results above the action levels are highlighted in red #.

Analyte	Result	Action Level	LOQ	Analyte	Result	Action Level	LOQ
Abamectin	< LOQ	0.5	0.227	Acephate	< LOQ	0.4	0.182
Acequinocyl	< LOQ	2	0.909	Acetamiprid	< LOQ	0.2	0.091
Aldicarb	< LOQ	0.4	0.182	Azoxystrobin	< LOQ	0.2	0.091
Bifenazate	< LOQ	0.2	0.091	Bifenthrin	< LOQ	0.2	0.091
Boscalid	< LOQ	0.4	0.182	Carbaryl	< LOQ	0.2	0.091
Carbofuran	< LOQ	0.2	0.091	Chlorantraniliprole	< LOQ	0.2	0.091
Chlorfenapyr	< LOQ	1	0.455	Chlorpyrifos	< LOQ	0.2	0.091
Clofentezine	< LOQ	0.2	0.091	Cyfluthrin	< LOQ	1	0.455
Cypermethrin	< LOQ	1	0.455	Daminozide	< LOQ	1	0.455
DDVP (Dichlorvos)	< LOQ	1	0.455	Diazinon	< LOQ	0.2	0.091
Dimethoate	< LOQ	0.2	0.091	Ethoprophos	< LOQ	0.2	0.091
Etofenprox	< LOQ	0.4	0.182	Etoxazole	< LOQ	0.2	0.091
Fenoxycarb	< LOQ	0.2	0.091	Fenpyroximate	< LOQ	0.4	0.182
Fipronil	< LOQ	0.4	0.182	Fonicamid	< LOQ	1	0.455
Fludioxonil	< LOQ	0.4	0.182	Hexythiazox	< LOQ	1	0.455
Imazalil	< LOQ	0.2	0.091	Imidacloprid	< LOQ	0.4	0.182
Kresoxim-methyl	< LOQ	0.4	0.182	Malathion	< LOQ	0.2	0.091
Metalaxyl	< LOQ	0.2	0.091	Methiocarb	< LOQ	0.2	0.091
Methomyl	< LOQ	0.4	0.182	Methyl parathion	< LOQ	0.2	0.091
MGK-264	< LOQ	0.2	0.091	Myclobutanil	< LOQ	0.2	0.091
Naled	< LOQ	0.5	0.227	Oxamyl	< LOQ	1	0.455
Paclobutrazol	< LOQ	0.4	0.182	Permethrins (total)	< LOQ	0.2	0.091
Phosmet	< LOQ	0.2	0.091	Piperonyl butoxide	< LOQ	2	0.455
Prallethrin	< LOQ	0.2	0.091	Propiconazole	< LOQ	0.4	0.182
Propoxur	< LOQ	0.2	0.091	Pyrethrins (total)	< LOQ	1	0.455
Pyridaben	< LOQ	0.2	0.091	Spinosad	< LOQ	0.2	0.091
Spiromesifen	< LOQ	0.2	0.091	Spirotetramat	< LOQ	0.2	0.091
Spiroxamine	< LOQ	0.4	0.182	Tebuconazole	< LOQ	0.4	0.182
Thiacloprid	< LOQ	0.2	0.091	Thiamethoxam	< LOQ	0.2	0.091
Trifloxystrobin	< LOQ	0.2	0.091				

<LOQ - Results below the Limit of Quantitation - Compound not detected



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Lab Director

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Sample Name: Cactus CO2 Oil Primary	Date Sampled: 06/21/18 00:00
Tested for: OM Extracts	Date Accepted: 06/21/18
Compliance Concentrate	Results Valid Until: 06/21/19
Laboratory ID: 18F0049-01	Sample Metric ID: 1A4010300014ADD000003491
Matrix: Extracts and Concentrates	Batch RFID: 1A4010300014ADD000003490
Lot # NA	Batch Size: 2724 (g)

Residual Solvents

Solvent	Results in ug/g	Action Level	LOQ	Date Extracted: 06/25/18
1,4-Dioxane	< LOQ	380	71.3	Date Analyzed: 06/25/18
2-Butanol	< LOQ	5000	438	Analysis Method/SOP: RST
2-Ethoxyethanol	< LOQ	160	30.0	
2-Propanol (IPA)	< LOQ	5000	438	
Acetone	< LOQ	5000	438	
Acetonitrile	< LOQ	400	76.9	
Benzene	< LOQ	2	0.750	
Butanes	< LOQ	5000	313	
Cyclohexane	< LOQ	3880	728	
Dichloromethane (methylene chloride)	< LOQ	600	113	
Ethyl acetate	< LOQ	5000	438	
Ethyl ether	< LOQ	5000	438	
Ethylbenzene	< LOQ	2170	406	
Ethylene glycol	< LOQ	620	116	
Ethylene oxide	< LOQ	50	37.5	
Heptane	< LOQ	5000	438	
Hexanes	< LOQ	290	54.4	
Isopropyl acetate	< LOQ	5000	438	
Isopropylbenzene (cumene)	< LOQ	70	13.1	
Methanol	< LOQ	3000	313	
Pentanes	< LOQ	5000	438	
Propane	< LOQ	5000	125	
Tetrahydrofuran	< LOQ	720	135	
Toluene	< LOQ	890	167	
Xylenes	< LOQ	2170	406	

<LOQ - Results below the Limit of Quantitation - Compound not detected
 Results above the Action Level fail state testing requirements and will be highlighted **Red #**.



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Sample Name: Cactus CO2 Oil Duplicate	Date Sampled: 06/21/18 00:00
Tested for: OM Extracts	Date Accepted: 06/21/18
Compliance Concentrate	Results Valid Until: 06/21/19
Laboratory ID: 18F0049-02	Sample Metric ID: 1A4010300014ADD000003491
Matrix: Extracts and Concentrates	Batch RFID: 1A4010300014ADD000003490
Lot # NA	Batch Size: 2724 (g)

Residual Solvents

Solvent	Results in ug/g	Action Level	LOQ	Date Extracted: 06/25/18
1,4-Dioxane	< LOQ	380	71.3	Date Analyzed: 06/25/18
2-Butanol	< LOQ	5000	438	Analysis Method/SOP: RST
2-Ethoxyethanol	< LOQ	160	30.0	
2-Propanol (IPA)	< LOQ	5000	438	
Acetone	< LOQ	5000	438	
Acetonitrile	< LOQ	400	76.9	
Benzene	< LOQ	2	0.750	
Butanes	< LOQ	5000	313	
Cyclohexane	< LOQ	3880	728	
Dichloromethane (methylene chloride)	< LOQ	600	113	
Ethyl acetate	< LOQ	5000	438	
Ethyl ether	< LOQ	5000	438	
Ethylbenzene	< LOQ	2170	406	
Ethylene glycol	< LOQ	620	116	
Ethylene oxide	< LOQ	50	37.5	
Heptane	< LOQ	5000	438	
Hexanes	< LOQ	290	54.4	
Isopropyl acetate	< LOQ	5000	438	
Isopropylbenzene (cumene)	< LOQ	70	13.1	
Methanol	< LOQ	3000	313	
Pentanes	< LOQ	5000	438	
Propane	< LOQ	5000	125	
Tetrahydrofuran	< LOQ	720	135	
Toluene	< LOQ	890	167	
Xylenes	< LOQ	2170	406	

<LOQ - Results below the Limit of Quantitation - Compound not detected
 Results above the Action Level fail state testing requirements and will be highlighted **Red #**.



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