

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

Laboratory ID: 18J0041-07

Matrix: Extracts and Concentrates

Sample Metrc ID: 1A4010300014ADD000007992

Lot # 180910-CA Tincture

Date Sampled: 10/10/18 13:08

Batch RFID: 1A4010300014ADD000007973

Date Accepted: 10/11/18

Batch Size: 2724 (g)

Results Valid Until: 10/10/19



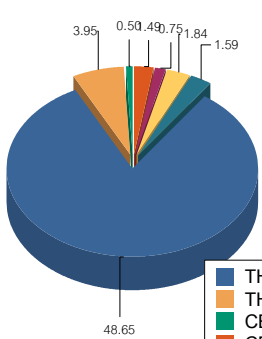
## Potency Analysis

Date Extracted: 10/15/18

Analysis Method/SOP: Potency

Date Analyzed: 10/15/18

\* - ORELAP certified analyte

Cannabinoids	% weight	mg/g	Cannabinoids Profile																
<b>Total THC</b> ((THCA*0.877)+d9)	52.12	521.2	 <table border="1"> <tr><td>THC</td><td>48.65</td></tr> <tr><td>THCA</td><td>3.95</td></tr> <tr><td>CBN</td><td>0.50</td></tr> <tr><td>CBG</td><td>1.49</td></tr> <tr><td>CBGA</td><td>0.75</td></tr> <tr><td>CBC</td><td>1.84</td></tr> <tr><td>THCV</td><td>1.59</td></tr> <tr><td><b>Total:</b></td><td><b>58.77</b></td></tr> </table>	THC	48.65	THCA	3.95	CBN	0.50	CBG	1.49	CBGA	0.75	CBC	1.84	THCV	1.59	<b>Total:</b>	<b>58.77</b>
THC	48.65																		
THCA	3.95																		
CBN	0.50																		
CBG	1.49																		
CBGA	0.75																		
CBC	1.84																		
THCV	1.59																		
<b>Total:</b>	<b>58.77</b>																		
<b>Total CBD</b> ((CBDA*0.877)+CBD)	< LOQ	< LOQ																	
d9-THC (d9-Tetrahydrocannabinol)*	48.65	486.5																	
d8-THC (d8-Tetrahydrocannabinol)*	< LOQ	< LOQ																	
THCA (d9-Tetrahydrocannabinolic Acid)*	3.95	39.5																	
CBD (Cannabidiol)*	< LOQ	< LOQ																	
CBDA (Cannabidiolic Acid)*	< LOQ	< LOQ																	
CBN (Cannabinol)*	0.50	5																	
CBG (Cannabigerol)*	1.49	14.9																	
CBGA (Cannabigerolic Acid)	0.75	7.5																	
CBDV (Cannabidivarin)*	< LOQ	< LOQ																	
CBDVA (Cannabidivarinic Acid)	< LOQ	< LOQ																	
CBC (Cannabichromene)*	1.84	18.4																	
THCV (Tetrahydrocannabivarin)	1.59	15.9																	
<b>Total Cannabinoids</b>	<b>58.77</b>	<b>587.7</b>																	

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



Brian Weigel  
Lab Director

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

Laboratory ID: 18J0041-08

Matrix: Extracts and Concentrates

Sample Metrc ID: 1A4010300014ADD000007992

Lot # 180910-CA Tincture

Batch RFID: 1A4010300014ADD000007973

Batch Size: 2724 (g)

Date Sampled: 10/10/18 13:15

Date Accepted: 10/11/18

Results Valid Until: 10/10/19



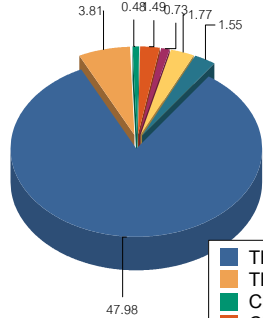
## Potency Analysis

Date Extracted: 10/15/18

Date Analyzed: 10/15/18

Analysis Method/SOP: Potency

\* - ORELAP certified analyte

Cannabinoids	% weight	mg/g	Cannabinoids Profile																
<b>Total THC</b> ((THCA*0.877)+d9)	51.32	513.2	 <table border="1"> <tr><td>THC</td><td>47.98</td></tr> <tr><td>THCA</td><td>3.81</td></tr> <tr><td>CBN</td><td>0.48</td></tr> <tr><td>CBG</td><td>1.49</td></tr> <tr><td>CBGA</td><td>0.73</td></tr> <tr><td>CBC</td><td>1.77</td></tr> <tr><td>THCV</td><td>1.55</td></tr> <tr><td><b>Total:</b></td><td><b>57.80</b></td></tr> </table>	THC	47.98	THCA	3.81	CBN	0.48	CBG	1.49	CBGA	0.73	CBC	1.77	THCV	1.55	<b>Total:</b>	<b>57.80</b>
THC	47.98																		
THCA	3.81																		
CBN	0.48																		
CBG	1.49																		
CBGA	0.73																		
CBC	1.77																		
THCV	1.55																		
<b>Total:</b>	<b>57.80</b>																		
<b>Total CBD</b> ((CBDA*0.877)+CBD)	< LOQ	< LOQ																	
d9-THC (d9-Tetrahydrocannabinol)*	47.98	479.8																	
d8-THC (d8-Tetrahydrocannabinol)*	< LOQ	< LOQ																	
THCA (d9-Tetrahydrocannabinolic Acid)*	3.81	38.1																	
CBD (Cannabidiol)*	< LOQ	< LOQ																	
CBDA (Cannabidiolic Acid)*	< LOQ	< LOQ																	
CBN (Cannabinol)*	0.48	4.8																	
CBG (Cannabigerol)*	1.49	14.9																	
CBGA (Cannabigerolic Acid)	0.73	7.3																	
CBDV (Cannabidivarin)*	< LOQ	< LOQ																	
CBDVA (Cannabidivarinic Acid)	< LOQ	< LOQ																	
CBC (Cannabichromene)*	1.77	17.7																	
THCV (Tetrahydrocannabivarin)	1.55	15.5																	
<b>Total Cannabinoids</b>	<b>57.80</b>	<b>578</b>																	

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

Sample Name: **Cactus**

Sample Metrc ID: 1A4010300014ADD000007992

	Primary Result	Duplicate Result	Average	% RPD	Pass/Fail (<20%RPD)
	%	%	%		
<b>Total THC</b> ((THCA*0.877)+d9)	52.12	51.32	51.72	1.55	PASS



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Sample Name: <b>Cactus Primary</b>	Date Sampled: <b>10/10/18 13:08</b>
Tested for: <b>OM Extracts</b>	Date Accepted: <b>10/11/18</b>
<b>Compliance Concentrate</b>	Results Valid Until: <b>10/10/19</b>
Laboratory ID: <b>18J0041-07</b>	Sample Metrc ID: <b>1A4010300014ADD000007992</b>
Matrix: <b>Extracts and Concentrates</b>	Batch RFID: <b>1A4010300014ADD000007973</b>
Lot # <b>180910-CA Tincture</b>	Batch Size: <b>2724 (g)</b>

### Terpene Analysis

Date Extracted: 10/15/18      Analysis Method/SOP: Terpenes  
Date Analyzed: 10/15/18

Analyte	Result (%)	LOQ	Analyte	Result	LOQ
alpha Pinene	0.117	0.094	Myrcene	0.251	0.094
alpha Phellandrene	< LOQ	0.094	3-Carene	< LOQ	0.094
alpha Terpinene	< LOQ	0.094	Limonene	0.321	0.094
Terpinolene	0.507	0.094	Linalool	0.101	0.094
Fenchol	< LOQ	0.094	Borneol	< LOQ	0.094
Terpineol	0.129	0.094	Geraniol	< LOQ	0.094
alpha Humulene	0.771	0.094	beta Caryophyllene	1.966	0.094
Caryophyllene Oxide	0.101	0.094	alpha Bisabolol	0.580	0.094
Camphene	< LOQ	0.094	beta Pinene	< LOQ	0.094
Ocimene	< LOQ	0.094	Sabinene	< LOQ	0.094
Camphor	< LOQ	0.094	Isoborneol	< LOQ	0.094
Menthol	< LOQ	0.094	alpha Cedrene	< LOQ	0.094
Nerolidol	0.111	0.094	R-(+)-Pulegone	< LOQ	0.094
Eucalyptol	< LOQ	0.094	p-Cymene	< LOQ	0.094
(-)-Isopulegol	< LOQ	0.094	Geranyl Acetate	< LOQ	0.094
Guaiol	0.214	0.094	Valencene	0.420	0.094
Phytol	0.299	0.094	Citronellol	< LOQ	0.094
gamma-Terpinene	< LOQ	0.094			
			<b>Total Terpenes</b>	<b>5.888 %</b>	

<LOQ - Results below the Limit of Quantitation - Compound not detected  
Terpene Analysis is not ORELAP Accredited.

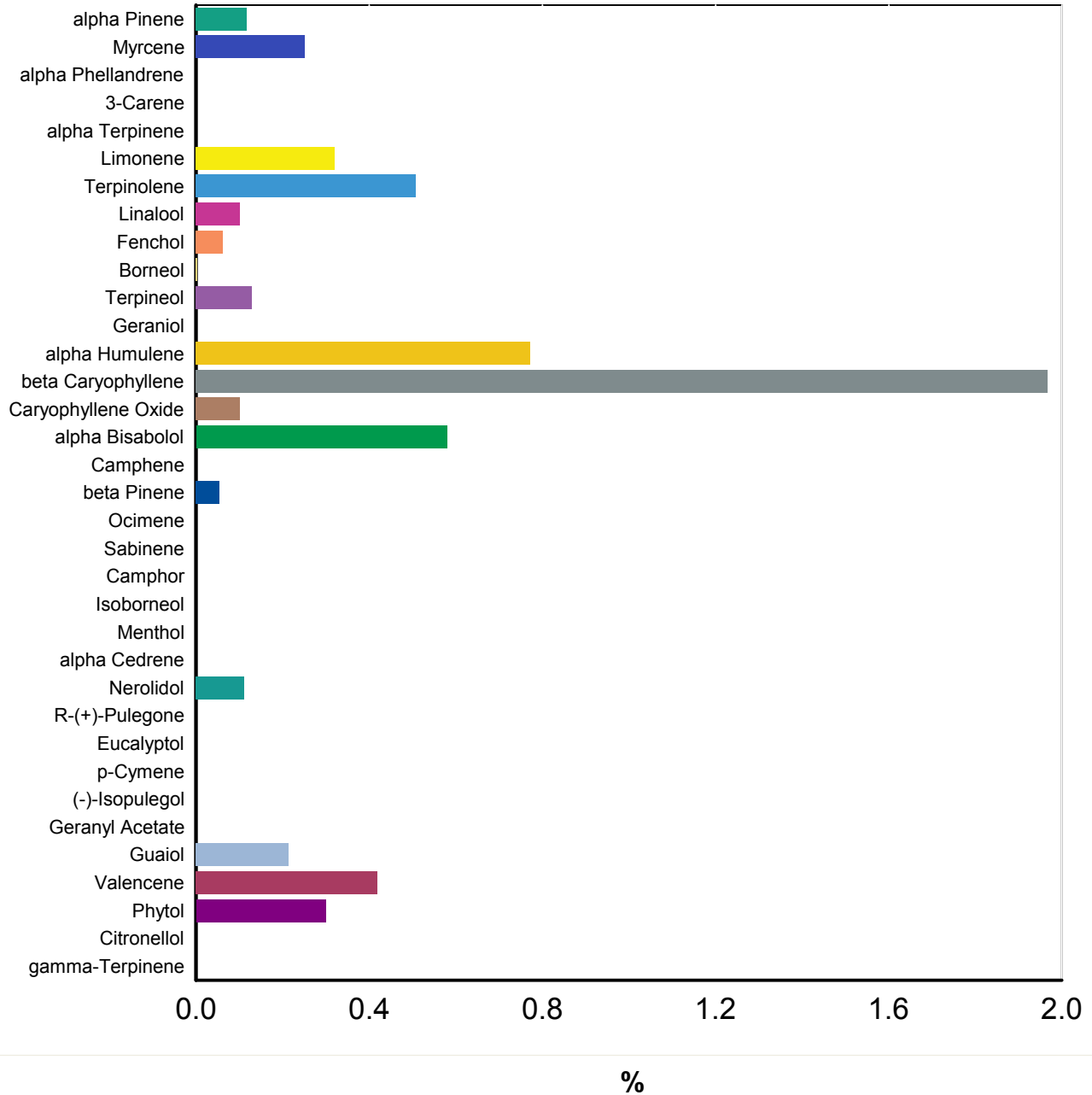


Brian Weigel  
Lab Director

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Sample Name: <b>Cactus Primary</b>	Date Sampled: <b>10/10/18 13:08</b>
Tested for: <b>OM Extracts</b>	Date Accepted: <b>10/11/18 18:20</b>
<b>Compliance Concentrate</b>	Results Valid Until: <b>10/10/19</b>
Laboratory ID: <b>18J0041-07</b> Matrix: <b>Extracts and</b>	Client/Metric ID: <b>1A4010300014ADD000007992</b>

**Terpene Profile**




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Lab Director

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Sample Name: **Cactus Primary** Date Sampled: **10/10/18 13:08**  
 Tested for: **OM Extracts** Date Accepted: **10/11/18**  
**Compliance Concentrate** Results Valid Until: **10/10/19**

Laboratory ID: **18J0041-07** Sample Metrc ID: **1A4010300014ADD000007992**  
 Matrix: **Extracts and Concentrates** Batch RFID: **1A4010300014ADD000007973**  
 Lot # **180910-CA Tincture** Batch Size: **2724 (g)**

## Pesticide Analysis in ppm

Date Extracted: 10/12/18 Analysis Method/SOP: Pesticides  
 Date Analyzed: 10/16/18 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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Lab Director

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Sample Name: **Cactus Duplicate** Date Sampled: **10/10/18 13:15**  
 Tested for: **OM Extracts** Date Accepted: **10/11/18**  
**Compliance Concentrate** Results Valid Until: **10/10/19**

Laboratory ID: **18J0041-08** Sample Metrc ID: **1A4010300014ADD000007992**  
 Matrix: **Extracts and Concentrates** Batch RFID: **1A4010300014ADD000007973**  
 Lot # **180910-CA Tincture** Batch Size: **2724 (g)**

## Pesticide Analysis in ppm

Date Extracted: 10/12/18 Analysis Method/SOP: Pesticides  
 Date Analyzed: 10/16/18 Results above the action levels are highlighted in red #.

Analyte	Result	Action Level	LOQ	Analyte	Result	Action Level	LOQ
Abamectin	< LOQ	0.5	0.240	Acephate	< LOQ	0.4	0.192
Acequinocyl	< LOQ	2	0.962	Acetamiprid	< LOQ	0.2	0.096
Aldicarb	< LOQ	0.4	0.192	Azoxystrobin	< LOQ	0.2	0.096
Bifenazate	< LOQ	0.2	0.096	Bifenthrin	< LOQ	0.2	0.096
Boscalid	< LOQ	0.4	0.192	Carbaryl	< LOQ	0.2	0.096
Carbofuran	< LOQ	0.2	0.096	Chlorantraniliprole	< LOQ	0.2	0.096
Chlorfenapyr	< LOQ	1	0.481	Chlorpyrifos	< LOQ	0.2	0.096
Clofentezine	< LOQ	0.2	0.096	Cyfluthrin	< LOQ	1	0.481
Cypermethrin	< LOQ	1	0.481	Daminozide	< LOQ	1	0.481
DDVP (Dichlorvos)	< LOQ	1	0.481	Diazinon	< LOQ	0.2	0.096
Dimethoate	< LOQ	0.2	0.096	Ethoprophos	< LOQ	0.2	0.096
Etofenprox	< LOQ	0.4	0.192	Etoxazole	< LOQ	0.2	0.096
Fenoxycarb	< LOQ	0.2	0.096	Fenpyroximate	< LOQ	0.4	0.192
Fipronil	< LOQ	0.4	0.192	Fonicamid	< LOQ	1	0.481
Fludioxonil	< LOQ	0.4	0.192	Hexythiazox	< LOQ	1	0.481
Imazalil	< LOQ	0.2	0.096	Imidacloprid	< LOQ	0.4	0.192
Kresoxim-methyl	< LOQ	0.4	0.192	Malathion	< LOQ	0.2	0.096
Metalaxyl	< LOQ	0.2	0.096	Methiocarb	< LOQ	0.2	0.096
Methomyl	< LOQ	0.4	0.192	Methyl parathion	< LOQ	0.2	0.096
MGK-264	< LOQ	0.2	0.096	Myclobutanil	< LOQ	0.2	0.096
Naled	< LOQ	0.5	0.240	Oxamyl	< LOQ	1	0.481
Paclobutrazol	< LOQ	0.4	0.192	Permethrins (total)	< LOQ	0.2	0.096
Phosmet	< LOQ	0.2	0.096	Piperonyl butoxide	< LOQ	2	0.481
Prallethrin	< LOQ	0.2	0.096	Propiconazole	< LOQ	0.4	0.192
Propoxur	< LOQ	0.2	0.096	Pyrethrins (total)	< LOQ	1	0.481
Pyridaben	< LOQ	0.2	0.096	Spinosad	< LOQ	0.2	0.096
Spiromesifen	< LOQ	0.2	0.096	Spirotetramat	< LOQ	0.2	0.096
Spiroxamine	< LOQ	0.4	0.192	Tebuconazole	< LOQ	0.4	0.192
Thiacloprid	< LOQ	0.2	0.096	Thiamethoxam	< LOQ	0.2	0.096
Trifloxystrobin	< LOQ	0.2	0.096				

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



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Lab Director

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Sample Name: <b>Cactus Primary</b>	Date Sampled: <b>10/10/18 13:08</b>
Tested for: <b>OM Extracts</b>	Date Accepted: <b>10/11/18</b>
<b>Compliance Concentrate</b>	Results Valid Until: <b>10/10/19</b>
Laboratory ID: <b>18J0041-07</b>	Sample Metric ID: <b>1A4010300014ADD000007992</b>
Matrix: <b>Extracts and Concentrates</b>	Batch RFID: <b>1A4010300014ADD000007973</b>
Lot # <b>180910-CA Tincture</b>	Batch Size: <b>2724 (g)</b>

### Residual Solvents

Solvent	Results in ug/g	Action Level	LOQ
1,4-Dioxane	< LOQ	380	71.3
2-Butanol	< LOQ	5000	438
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

Date Extracted: 10/12/18  
 Date Analyzed: 10/13/18  
 Analysis Method/SOP: RST

<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: <b>Cactus Duplicate</b>	Date Sampled: <b>10/10/18 13:15</b>
Tested for: <b>OM Extracts</b>	Date Accepted: <b>10/11/18</b>
<b>Compliance Concentrate</b>	Results Valid Until: <b>10/10/19</b>
Laboratory ID: <b>18J0041-08</b>	Sample Metric ID: <b>1A4010300014ADD000007992</b>
Matrix: <b>Extracts and Concentrates</b>	Batch RFID: <b>1A4010300014ADD000007973</b>
Lot # <b>180910-CA Tincture</b>	Batch Size: <b>2724 (g)</b>

### Residual Solvents

Solvent	Results in ug/g	Action Level	LOQ	Date Extracted: 10/12/18
1,4-Dioxane	< LOQ	380	71.3	Date Analyzed: 10/13/18
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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