



# Steep Hill Oklahoma

114154 S. 4629 SALLISAW, OK 74955 LIC #LAAA-NJT2-DMOG

## CERTIFICATE OF ANALYSIS | For Medical Use

Sample Name: DO-SI-LATO  
Steep Hill ID: OK88547  
Batch ID: DS200713B  
Sample Type: Flower  
Date Received: 7/24/2020  
Date Reported: 7/29/2020

Customer: Mariteq Growers, LLC  
471833 Hwy 51 East  
Stilwell, OK 74960  
LIC.# GAAA-EKCT-I7DH

### OVERALL BATCH SUMMARY: **PASS**

Cannabinoids	Foreign Material	Heavy Metals	Microbial Impurities	Mycotoxins	Residual Pesticides	Moisture
Tested	Pass	Pass	Pass	Pass	Pass	Tested



**Total THC**  
 22.1 %  
 221 mg/g  
 25.3 % (Dry)  
 253 mg/g (Dry)

**Total CBD**  
 0.251 %  
 2.51 mg/g  
 0.287 % (Dry)  
 2.87 mg/g (Dry)

**Total Cannabinoids**  
 26.5 %  
 265 mg/g  
 30.4 % (Dry)  
 304 mg/g (Dry)

\* Dry accounts for moisture in the potency calculation.

Kandice Faulkenberry  
Co-Owner & CEO  
Date: 7/29/2020

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### Cannabinoid Results

7/28/2020

Standard potency analysis utilizing High Performance Liquid Chromatography with Photo Diode Array Detector (HPLC-PDA; SOP-068)

Analyte	%	mg/g	% (Dry)	mg/g (Dry)	LOD mg/g	LOQ mg/g
CBC	ND	ND	ND	ND	0.0566	0.189
CBCV	ND	ND	ND	ND	0.0566	0.189
CBD	0.207	2.07	0.237	2.37	0.0566	0.189
CBDA	0.0493	0.493	0.0564	0.564	0.0566	0.189
CBDV	ND	ND	ND	ND	0.0566	0.189
CBDVA	< LOQ	< LOQ	< LOQ	< LOQ	0.0566	0.189
CBG	0.197	1.97	0.225	2.25	0.0566	0.189
CBGA	0.709	7.09	0.812	8.12	0.0566	0.189
CBL	0.274	2.74	0.314	3.14	0.0566	0.189
CBN	ND	ND	ND	ND	0.0566	0.189
THC	1.45	14.5	1.66	16.6	0.0566	0.189
delta-8-THC	ND	ND	ND	ND	0.0566	0.189
THCA	23.6	236	27.0	270	0.0566	0.189
THCV	ND	ND	ND	ND	0.0566	0.189
THCVA	0.0785	0.785	0.0898	0.898	0.0566	0.189
Total	26.5	265	30.4	304		

### Terpenoid Results

7/29/2020

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069)

Analyte	%	mg/g	LOD mg/g	LOQ mg/g	Analyte	%	mg/g	LOD mg/g	LOQ mg/g
α-Bisabolol	0.0645	0.645	0.00182	0.0219	D-Limonene	0.439	4.39	0.00238	0.106
endo-Borneol	0.0190	0.190	0.00157	0.100	Linalool	0.130	1.30	0.00271	0.0358
Camphene	0.0106	0.106	0.00185	0.0726	Menthol	ND	ND	0.00274	0.0306
Camphor	ND	ND	0.00105	0.111	β-Myrcene	0.244	2.44	0.00143	0.0709
3-Carene	ND	ND	0.00108	0.0717	Nerol	< LOQ	< LOQ	0.00509	0.0723
Caryophyllene Oxide	ND	ND	0.0404	0.0594	cis-Nerolidol	ND	ND	0.0114	0.0114
β-Caryophyllene	2.00	20.0	0.00157	0.0370	trans-Nerolidol	0.0464	0.464	0.00306	0.0498
α-Cedrene	< LOQ	< LOQ	0.00154	0.113	cis-β-Ocimene	0.0227	0.227	0.00126	0.0351
Cedrol	ND	ND	0.0402	0.0402	trans-β-Ocimene	< LOQ	< LOQ	0.00223	0.0313
Citronellol	ND	ND	0.0100	0.142	Phytol 1	ND	ND	0.689	0.689
Eucalyptol	ND	ND	0.00417	0.0690	Phytol 2	ND	ND	0.551	0.551
α-Farnesene	ND	ND	0.000252	0.00113	α-Pinene	0.0598	0.598	0.00192	0.104
β-Farnesene	0.126	1.26	0.00414	0.0211	β-Pinene	0.0640	0.640	0.00159	0.103
Fenchol	0.0514	0.514	0.0111	0.149	Pulegone	< LOQ	< LOQ	0.00444	0.113
Fenchone	< LOQ	< LOQ	0.00116	0.141	Sabinene	ND	ND	0.00165	0.105
Geraniol	0.0156	0.156	0.0106	0.101	Sabinene Hydrate	< LOQ	< LOQ	0.0285	0.391
Geranyl Acetate	0.0283	0.283	0.00165	0.0381	α-Terpinene	ND	ND	0.00238	0.106
Guaiol	0.136	1.36	0.00288	0.0268	γ-Terpinene	< LOQ	< LOQ	0.00199	0.106
Humulene	0.396	3.96	0.00142	0.101	Δ Terpinene	< LOQ	< LOQ	0.00366	0.112
Isoborneol	ND	ND	0.00172	0.0434	α-Terpineol	0.0958	0.958	0.00385	0.0658
Isopulegol	0.0117	0.117	0.0273	0.0781	Valencene	ND	ND	0.00568	0.167
Total	3.96	39.6							

LOD: Limit of Detection  
 LOQ: Limit of Quantitation  
 NT: Not Tested  
 ND: Not Detected

*K Faulkenberry*

Kandice Faulkenberry  
Co-Owner & CEO  
Date: 7/29/2020

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### Heavy Metals Results Pass 7/27/2020

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072) - Limit units: µg/g

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
Arsenic	Pass	< LOQ	0.4	0.0000344	0.000109
Cadmium	Pass	< LOQ	0.4	0.0000388	0.000118
Lead	Pass	ND	1	0.0000417	0.000126
Mercury	Pass	ND	0.2	0.00000205	0.00000614

### Microbial Impurities Results Pass 7/28/2020

Microbiological screening utilizing Pathogen Dx. (PDX; SOP-076) - Limit units: CFU/g

Analyte	Pass/Fail	Result	Limit	LOQ
E. coli	Pass	ND	ND	
Salmonella	Pass	ND	ND	
Staphylococcus Aureus	Pass	ND	ND	
Yeast & Mold	Pass	7196	10000	

### Residual Pesticides Results Pass 7/28/2020

Residual pesticide analysis utilizing Liquid and Gas Chromatography – Mass Spectrometry (LC-MSMS + GC-MSMS; SOP-070 + SOP-080) - Limit units: µg/g

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
Abamectin	Pass	ND	0.5	0.00561	0.0187
Azoxystrobin	Pass	ND	0.5	0.00581	0.0194
Bifenazate	Pass	ND	0.5	0.00581	0.0194
Etoxazole	Pass	ND	0.5	0.00589	0.0196
Imazalil	Pass	ND	0.5	0.00596	0.0199
Imidacloprid	Pass	ND	0.5	0.00581	0.0193
Malathion	Pass	ND	0.5	0.00585	0.0195
Myclobutanil	Pass	ND	0.5	0.00592	0.0197
Permethrins	Pass	ND	0.5	0.00588	0.0196
Spinosad	Pass	ND	0.5	0.00426	0.0142
Spiromesifen	Pass	ND	0.5	0.00587	0.0195
Spirotetramat	Pass	ND	0.5	0.00585	0.0195
Tebuconazole	Pass	ND	0.5	0.00584	0.0194

### Residual Solvents Results NT

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010) - Limit units: µg/g

Analyte	Pass/Fail	µg/g	Limit	LOD µg/g	LOQ µg/g
2-Propanol (IPA)	NT	NT	NT	NT	NT
Acetone	NT	NT	NT	NT	NT
Benzene	NT	NT	NT	NT	NT
n-Butane	NT	NT	NT	NT	NT
n-Heptane	NT	NT	NT	NT	NT
n-Hexane	NT	NT	NT	NT	NT
n-Pentane	NT	NT	NT	NT	NT
Propane	NT	NT	NT	NT	NT
Toluene	NT	NT	NT	NT	NT
Total Xylenes	NT	NT	NT	NT	NT

### Foreign Material Results Pass 7/27/2020

Foreign material analysis utilizing visual inspection

Analyte	Pass/Fail
Visual Inspection	Pass

### Water Activity Results NT

Water Activity analysis utilizing Water Activity Meter (WAM; SOP-090) - Limit units: Aw

Analyte	Pass/Fail	Aw	Limit
Water Activity	NT	NT	

### Mycotoxin Results Pass 7/28/2020

Mycotoxin analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070) - Limit units: µg/kg

Analyte	Pass/Fail	µg/kg	Limit	LOD µg/kg	LOQ µg/kg
Aflatoxin B1		ND		0.618	2.06
Aflatoxin B2		ND		0.620	2.06
Aflatoxin G1		ND		0.622	2.07
Aflatoxin G2		ND		0.622	2.07
Ochratoxin A	Pass	ND	20	0.591	1.97

### Moisture Results 7/28/2020

Moisture content analysis utilizing Moisture Balance (MB; SOP-055)

Analyte	%
Moisture	12.64

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