



Steep Hill Oklahoma

114154 S. 4629 SALISAW, OK 74995 LIC #LAAA-NJT2-DMOG

CERTIFICATE OF ANALYSIS | For Medical Use

Sample Name: Sunset Sherbert
Steep Hill ID: OK88038
Batch ID: SU200625-A
Sample Type: Flower
Date Received: 7/12/2020
Date Reported: 7/15/2020

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
 15.7 %
 157 mg/g
 16.8 % (Dry)
 168 mg/g (Dry)

Total CBD
 0.105 %
 1.05 mg/g
 0.112 % (Dry)
 1.12 mg/g (Dry)

Total Cannabinoids
 18.8 %
 188 mg/g
 20.1 % (Dry)
 201 mg/g (Dry)

* Dry accounts for moisture in the potency calculation.

K Faulkenberry

Kandice Faulkenberry
Co-Owner & CEO
Date: 7/15/2020

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Cannabinoid Results

7/14/2020

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	0.0203	0.203	0.0217	0.217	0.0564	0.188
CBCV	ND	ND	ND	ND	0.0564	0.188
CBD	0.0730	0.730	0.0781	0.781	0.0564	0.188
CBDA	0.0364	0.364	0.0390	0.390	0.0564	0.188
CBDV	ND	ND	ND	ND	0.0564	0.188
CBDVA	< LOQ	< LOQ	< LOQ	< LOQ	0.0564	0.188
CBG	0.368	3.68	0.394	3.94	0.0564	0.188
CBGA	0.347	3.47	0.371	3.71	0.0564	0.188
CBL	0.214	2.14	0.228	2.28	0.0564	0.188
CBN	ND	ND	ND	ND	0.0564	0.188
THC	1.39	13.9	1.49	14.9	0.0564	0.188
delta-8-THC	ND	ND	ND	ND	0.0564	0.188
THCA	16.3	163	17.5	175	0.0564	0.188
THCV	ND	ND	ND	ND	0.0564	0.188
THCVA	0.0482	0.482	0.0515	0.515	0.0564	0.188
Total	18.8	188	20.1	201		

Terpenoid Results

7/15/2020

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	0.00954	0.0954	0.00181	0.0218	D-Limonene	0.117	1.17	0.00237	0.106
endo-Borneol	< LOQ	< LOQ	0.00156	0.0996	Linalool	0.0798	0.798	0.00269	0.0357
Camphene	< LOQ	< LOQ	0.00184	0.0722	Menthol	ND	ND	0.00272	0.0304
Camphor	ND	ND	0.00105	0.111	β-Myrcene	0.210	2.10	0.00143	0.0706
3-Carene	ND	ND	0.00107	0.0713	Nerol	ND	ND	0.00506	0.0719
Caryophyllene Oxide	ND	ND	0.0402	0.0591	cis-Nerolidol	ND	ND	0.0113	0.0113
β-Caryophyllene	0.329	3.29	0.00156	0.0368	trans-Nerolidol	< LOQ	< LOQ	0.00305	0.0495
α-Cedrene	ND	ND	0.00153	0.112	cis-β-Ocimene	ND	ND	0.00125	0.0349
Cedrol	ND	ND	0.0400	0.0400	trans-β-Ocimene	ND	ND	0.00222	0.0312
Citronellol	< LOQ	< LOQ	0.00995	0.141	Phytol 1	ND	ND	0.685	0.685
Eucalyptol	ND	ND	0.00415	0.0687	Phytol 2	ND	ND	0.548	0.548
α-Farnesene	ND	ND	0.000251	0.00113	α-Pinene	0.0173	0.173	0.00191	0.104
β-Farnesene	0.204	2.04	0.00412	0.0210	β-Pinene	0.0265	0.265	0.00158	0.102
Fenchol	0.0217	0.217	0.0110	0.149	Pulegone	ND	ND	0.00442	0.112
Fenchone	ND	ND	0.00116	0.141	Sabinene	ND	ND	0.00165	0.104
Geraniol	ND	ND	0.0106	0.101	Sabinene Hydrate	ND	ND	0.0284	0.389
Geranyl Acetate	< LOQ	< LOQ	0.00165	0.0379	α-Terpinene	ND	ND	0.00236	0.106
Guaiol	ND	ND	0.00286	0.0266	γ-Terpinene	ND	ND	0.00198	0.105
Humulene	0.0984	0.984	0.00141	0.100	Δ Terpinene	< LOQ	< LOQ	0.00364	0.111
Isoborneol	ND	ND	0.00171	0.0432	α-Terpineol	0.0146	0.146	0.00383	0.0655
Isopulegol	ND	ND	0.0271	0.0777	Valencene	ND	ND	0.00565	0.166
Total	1.13	11.3							

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

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Heavy Metals Results Pass 7/13/2020

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	ND	0.4	0.0000300	0.0000953
Cadmium	Pass	ND	0.4	0.0000338	0.000103
Lead	Pass	ND	1	0.0000363	0.000110
Mercury	Pass	ND	0.2	0.00000178	0.00000535

Microbial Impurities Results Pass 7/14/2020

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	6771	10000	

Residual Pesticides Results Pass 7/14/2020

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	0.00549	0.0183
Azoxystrobin	Pass	ND	0.5	0.00569	0.0190
Bifenazate	Pass	ND	0.5	0.00569	0.0190
Etoxazole	Pass	ND	0.5	0.00578	0.0192
Imazalil	Pass	ND	0.5	0.00584	0.0195
Imidacloprid	Pass	ND	0.5	0.00569	0.0189
Malathion	Pass	ND	0.5	0.00573	0.0191
Myclobutanil	Pass	ND	0.5	0.00580	0.0193
Permethrins	Pass	ND	0.5	0.00576	0.0192
Spinosad	Pass	ND	0.5	0.00418	0.0139
Spiromesifen	Pass	ND	0.5	0.00575	0.0192
Spirotetramat	Pass	ND	0.5	0.00573	0.0191
Tebuconazole	Pass	ND	0.5	0.00572	0.0191

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 7/14/2020

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 7/14/2020

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		0.605	2.02
Aflatoxin B2		ND		0.608	2.02
Aflatoxin G1		ND		0.610	2.03
Aflatoxin G2		ND		0.610	2.03
Ochratoxin A	Pass	ND	20	0.579	1.93

Moisture Results 7/14/2020

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

Analyte	%
Moisture	6.45

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