



Steep HillOklahomaTM

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

CERTIFICATE OF ANALYSIS

Sample Name: SINS
Steep Hill ID: OK88103
Batch ID: H7-38AID6DD02ICED
Sample Type: Flower
Date Received: 7/15/2020
Date Reported: 7/20/2020

Customer: Happy Hour Medicinals LLC
147 S. 122nd East Ave
Tulsa, OK 74128
LIC.# GAAA-NJAR-PKDB

OVERALL BATCH SUMMARY: **PASS**

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



Total THC

19.0 %
190 mg/g
22.2 % (Dry)
222 mg/g (Dry)

Total CBD

0.186 %
1.86 mg/g
0.217 % (Dry)
2.17 mg/g (Dry)

Total Cannabinoids

22.7 %
227 mg/g
26.5 % (Dry)
265 mg/g (Dry)

* Dry accounts for moisture in the potency calculation.

K Faulkenberry

Kandice Faulkenberry
Co-Owner & CEO
Date: 7/20/2020

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CERTIFICATE OF ANALYSIS

Cannabinoid Results

7/17/2020

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	0.0155	0.155	0.0181	0.181	0.0545	0.181
CBCV	ND	ND	ND	ND	0.0545	0.181
CBD	0.146	1.46	0.171	1.71	0.0545	0.181
CBDA	0.0450	0.450	0.0526	0.526	0.0545	0.181
CBDV	ND	ND	ND	ND	0.0545	0.181
CBDVA	ND	ND	ND	ND	0.0545	0.181
CBG	ND	ND	ND	ND	0.0545	0.181
CBGA	0.484	4.84	0.566	5.66	0.0545	0.181
CBL	0.346	3.46	0.405	4.05	0.0545	0.181
CBN	ND	ND	ND	ND	0.0545	0.181
THC	0.897	8.97	1.05	10.5	0.0545	0.181
delta-8-THC	ND	ND	ND	ND	0.0545	0.181
THCA	20.7	207	24.2	242	0.0545	0.181
THCV	ND	ND	ND	ND	0.0545	0.181
THCVA	0.0792	0.792	0.0925	0.925	0.0545	0.181
Total	22.7	227	26.5	265		

Terpenoid Results

7/20/2020

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	0.0106	0.106	0.00180	0.0217	D-Limonene	0.138	1.38	0.00236	0.105
endo-Borneol	< LOQ	< LOQ	0.00156	0.0993	Linalool	0.113	1.13	0.00268	0.0355
Camphene	< LOQ	< LOQ	0.00183	0.0720	Menthol	ND	ND	0.00271	0.0303
Camphor	ND	ND	0.00104	0.110	β -Myrcene	1.88	18.8	0.00142	0.0703
3-Carene	ND	ND	0.00107	0.0710	Nerol	ND	ND	0.00504	0.0716
Caryophyllene Oxide	ND	ND	0.0401	0.0589	cis-Nerolidol	ND	ND	0.0113	0.0113
β -Caryophyllene	0.394	3.94	0.00155	0.0366	trans-Nerolidol	0.0109	0.109	0.00304	0.0494
α -Cedrene	ND	ND	0.00153	0.112	cis- β -Ocimene	0.0718	0.718	0.00125	0.0348
Cedrol	ND	ND	0.0398	0.0398	trans- β -Ocimene	< LOQ	< LOQ	0.00221	0.0310
Citronellol	< LOQ	< LOQ	0.00991	0.141	Phytol 1	ND	ND	0.683	0.683
Eucalyptol	0.00726	0.0726	0.00414	0.0684	Phytol 2	ND	ND	0.546	0.546
α -Farnesene	ND	ND	0.000250	0.00112	α -Pinene	0.0126	0.126	0.00190	0.103
β -Farnesene	0.0226	0.226	0.00411	0.0209	β -Pinene	0.0201	0.201	0.00158	0.102
Fenchol	0.0168	0.168	0.0110	0.148	Pulegone	ND	ND	0.00441	0.112
Fenchone	ND	ND	0.00115	0.140	Sabinene	< LOQ	< LOQ	0.00164	0.104
Geraniol	ND	ND	0.0106	0.101	Sabinene Hydrate	< LOQ	< LOQ	0.0283	0.388
Geranyl Acetate	ND	ND	0.00164	0.0378	α -Terpinene	< LOQ	< LOQ	0.00236	0.105
Guaiol	0.0291	0.291	0.00285	0.0265	γ -Terpinene	< LOQ	< LOQ	0.00197	0.105
Humulene	0.0882	0.882	0.00141	0.100	Δ Terpinene	< LOQ	< LOQ	0.00363	0.111
Isoborneol	ND	ND	0.00170	0.0430	α -Terpineol	0.0153	0.153	0.00382	0.0652
Isopulegol	< LOQ	< LOQ	0.0270	0.0774	Valencene	ND	ND	0.00563	0.166
Total	2.82	28.2							

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

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CERTIFICATE OF ANALYSIS

Heavy Metals Results

NT

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	NT	NT	NT	NT	NT
Cadmium	NT	NT	NT	NT	NT
Lead	NT	NT	NT	NT	NT
Mercury	NT	NT	NT	NT	NT

Microbial Impurities Results

NT

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

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

Residual Pesticides Results

NT

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	NT	NT	NT	NT	NT
Azoxystrobin	NT	NT	NT	NT	NT
Bifenazate	NT	NT	NT	NT	NT
Etoxazole	NT	NT	NT	NT	NT
Imazalil	NT	NT	NT	NT	NT
Imidacloprid	NT	NT	NT	NT	NT
Malathion	NT	NT	NT	NT	NT
Myclobutanil	NT	NT	NT	NT	NT
Permethrins	NT	NT	NT	NT	NT
Spinosad	NT	NT	NT	NT	NT
Spiromesifen	NT	NT	NT	NT	NT
Spirotetramat	NT	NT	NT	NT	NT
Tebuconazole	NT	NT	NT	NT	NT

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

Mycotoxin Results

NT

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	NT	NT	NT	NT	NT
Aflatoxin B2	NT	NT	NT	NT	NT
Aflatoxin G1	NT	NT	NT	NT	NT
Aflatoxin G2	NT	NT	NT	NT	NT
Ochratoxin A	NT	NT	NT	NT	NT

Foreign Material Results

NT

Foreign material analysis utilizing visual inspection

Analyte	Pass/Fail
Visual Inspection	NT

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	

Moisture Results

7/15/2020

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

Analyte	%
Moisture	14.44

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