



# Regulatory Compliance Testing

## CERTIFICATE OF ANALYSIS

DATE ISSUED 10/23/2023 | OVERALL BATCH RESULT: PASS

### SAMPLE NAME: Sol Shine

Flower, Inhalable

### CULTIVATOR / MANUFACTURER

**Business Name:** Sol Spirit Farm

LIC

**License Number:** CCL19-0005199

**Address:** 6301 South Fork Road

Unincorporated CA 95563

### DISTRIBUTOR

**Business Name:** HGDCO, INC.

**License Number:** C11-0000057-LIC

**Address:** 1551 Nursery WAY, UNIT A, MCKINLEYVILLE, CA 95519

### SAMPLE DETAIL

**Batch Number:** SS-SS-24

**Date Collected:** 10/19/2023

**Sample ID:** 231019Q001

**Date Received:** 10/20/2023

**Source Metrc UID:**  
1A4060300017959000000279

**Batch Size:** 3228.0 grams

**Sample Size:** 14.2 grams

**Unit Mass:**

**Serving Size:**

**Sampling Method:** QSP 1265 - Sampling of Cannabis and Product Batches



Scan QR code to verify authenticity of results.

### CANNABINOID ANALYSIS - SUMMARY

CALCULATED USING DRY-WEIGHT

**Sum of Cannabinoids:** 32.59%

**Total Cannabinoids:** 28.69%

**Total THC:** 25.42%

**Total CBD:** 0.079%

Sum of Cannabinoids =  $\Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDA} + \text{CBG} + \text{CBGa} + \text{THCV} + \text{THCVA} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVA} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$   
Total Cannabinoids =  $(\Delta^9\text{-THC} + 0.877\text{*THCa} + \Delta^8\text{-THC}) + (\text{CBD} + 0.877\text{*CBDA}) + (\text{CBG} + 0.877\text{*CBGa}) + (\text{THCV} + 0.877\text{*THCVA}) + (\text{CBC} + 0.877\text{*CBCa}) + (\text{CBDV} + 0.877\text{*CBDVA}) + \text{CBL} + \text{CBN}$   
Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:  
Total THC =  $\Delta^9\text{-THC} + (\text{THCa} (0.877)) + \Delta^8\text{-THC}$   
Total CBD = CBD + (CBDA (0.877))

**Moisture:** 12.9%

### TERPENOID ANALYSIS - SUMMARY

39 TESTED, TOP 3 HIGHLIGHTED

**Total Terpenoids:** 2.4215%



### SAFETY ANALYSIS - SUMMARY

**Pesticides:** PASS

**Mycotoxins:** PASS

**Heavy Metals:** PASS

**Microbiology:** PASS

**Foreign Material:** PASS

**Water Activity:** PASS

These results relate only to the sample included on this report.

This report shall not be reproduced, except in full, without written approval of the laboratory.

**Sample Certification:** California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

**Decision Rule:** Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

Approved by: Josh Wurzer  
Job Title: Chief Compliance Officer  
Date: 10/23/2023

All LQC samples were performed and met the prescribed acceptance criteria in 4 CCR section 15730, as attested by:  
Carmen Stackhouse  
Job Title: Senior Laboratory Analyst  
Date: 10/23/2023


 SOL SHINE | DATE ISSUED 10/23/2023 | OVERALL BATCH RESULT: PASS

## CANNABINOID TEST RESULTS - 10/21/2023

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD). Calculated using Dry-Weight. **Method:** QSP 1157 - Analysis of Cannabinoids by HPLC-DAD

**TOTAL CANNABINOID**: **28.69%**

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) + CBL + CBN

**TOTAL THC**: **25.42%**

Total THC ( $\Delta^9$ -THC+0.877\*THCa+ $\Delta^8$ -THC)

**TOTAL CBD**: **0.079%**

Total CBD (CBD+0.877\*CBDa)

**TOTAL CBG**: **2.39%**

Total CBG (CBG+0.877\*CBGa)

**TOTAL THCV**: **0.45%**

Total THCV (THCV+0.877\*THCVa)

**TOTAL CBC**: **0.34%**

Total CBC (CBC+0.877\*CBCa)

**TOTAL CBDV**: **ND**

Total CBDV (CBDV+0.877\*CBDAv)

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
THCa	0.04 / 0.24	±8.992	280.13	28.013
CBGa	0.1 / 0.4	±1.47	27.3	2.73
$\Delta^9$ -THC	0.1 / 0.4	±0.26	8.5	0.85
THCVa	0.05 / 0.17	±0.121	5.13	0.513
CBCa	0.1 / 0.4	±0.27	3.9	0.39
CBDa	0.06 / 0.22	±0.030	0.90	0.090
CBG	0.2 / 0.5	N/A	<1	<0.1
$\Delta^8$ -THC	0.05 / 0.50	N/A	ND	ND
THCV	0.07 / 0.21	N/A	ND	ND
CBD	0.1 / 0.3	N/A	ND	ND
CBDV	0.1 / 0.3	N/A	ND	ND
CBDVa	0.02 / 0.22	N/A	ND	ND
CBL	0.1 / 0.4	N/A	ND	ND
CBN	0.07 / 0.20	N/A	ND	ND
CBC	0.1 / 0.2	N/A	ND	ND
<b>SUM OF CANNABINOID</b>		325.9 mg/g	32.59%	

**MOISTURE TEST RESULT**

12.9%

Tested 10/20/2023

**Method:** QSP 1224 - Loss on Drying (Moisture)

## TERPENOID TEST RESULTS - 10/21/2023

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID). **Method:** QSP 1192 - Analysis of Terpenoids by GC-FID

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
Terpinolene	0.008 / 0.027	±0.1225	8.110	0.8110
$\beta$ -Caryophyllene	0.004 / 0.013	±0.1985	3.690	0.3690
Limonene	0.005 / 0.016	±0.0734	2.251	0.2251
Myrcene	0.007 / 0.025	±0.0750	2.118	0.2118
$\beta$ -Ocimene	0.005 / 0.018	±0.0767	1.951	0.1951
$\alpha$ -Humulene	0.009 / 0.031	±0.0594	1.105	0.1105
$\beta$ -Pinene	0.004 / 0.015	±0.0353	1.093	0.1093

 TERPENOID TEST RESULTS - 10/21/2023 *continued*

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
trans- $\beta$ -Farnesene	0.008 / 0.028	±0.0388	0.681	0.0681
$\alpha$ -Pinene	0.005 / 0.015	±0.0224	0.626	0.0626
$\alpha$ -Bisabolol	0.008 / 0.026	±0.0178	0.414	0.0414
$\alpha$ -Phellandrene	0.006 / 0.019	±0.0080	0.357	0.0357
Terpineol	0.008 / 0.025	±0.0215	0.351	0.0351
$\Delta^3$ -Carene	0.005 / 0.018	±0.0091	0.323	0.0323
$\alpha$ -Terpinene	0.006 / 0.019	±0.0050	0.234	0.0234
Fenchol	0.009 / 0.029	±0.0069	0.188	0.0188
$\gamma$ -Terpinene	0.005 / 0.018	±0.0039	0.164	0.0164
Sabinene	0.004 / 0.014	±0.0032	0.100	0.0100
Eucalyptol	0.005 / 0.018	±0.0037	0.093	0.0093
Caryophyllene Oxide	0.011 / 0.038	±0.0054	0.091	0.0091
Borneol	0.004 / 0.014	±0.0027	0.058	0.0058
Sabinene Hydrate	0.007 / 0.022	±0.0021	0.057	0.0057
Linalool	0.009 / 0.030	±0.0022	0.056	0.0056
Camphene	0.004 / 0.014	±0.0017	0.053	0.0053
Nerolidol	0.006 / 0.020	±0.0040	0.051	0.0051
p-Cymene	0.005 / 0.015	N/A	<LOQ	<LOQ
Fenchone	0.008 / 0.026	N/A	<LOQ	<LOQ
Valencene	0.010 / 0.033	N/A	<LOQ	<LOQ
Isopulegol	0.004 / 0.013	N/A	ND	ND
Camphor	0.005 / 0.015	N/A	ND	ND
Isoborneol	0.003 / 0.011	N/A	ND	ND
Menthol	0.008 / 0.025	N/A	ND	ND
Nerol	0.003 / 0.011	N/A	ND	ND
Citronellol	0.003 / 0.010	N/A	ND	ND
Pulegone	0.003 / 0.010	N/A	ND	ND
Geraniol	0.002 / 0.007	N/A	ND	ND
Geranyl Acetate	0.004 / 0.012	N/A	ND	ND
$\alpha$ -Cedrene	0.005 / 0.017	N/A	ND	ND
Guaiol	0.011 / 0.035	N/A	ND	ND
Cedrol	0.009 / 0.032	N/A	ND	ND
<b>TOTAL TERPENOID</b>		24.215 mg/g	2.4215%	


 SOL SHINE | DATE ISSUED 10/23/2023 | OVERALL BATCH RESULT: ✓ PASS
**CATEGORY 1 PESTICIDE TEST RESULTS** - 10/23/2023 ✓ PASS

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS). \*GC-MS utilized where indicated. **Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS or QSP 1213 - Analysis of Pesticides by GC-MS

COMPOUND	LOD/LOQ ( $\mu\text{g/g}$ )	ACTION LIMIT ( $\mu\text{g/g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/g}$ )	RESULT ( $\mu\text{g/g}$ )	RESULT
Aldicarb	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Carbofuran	0.02 / 0.05	$\geq$ LOD	N/A	ND	PASS
Chlordane*	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Chlorfenapyr*	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Chlorpyrifos	0.02 / 0.06	$\geq$ LOD	N/A	ND	PASS
Coumaphos	0.02 / 0.07	$\geq$ LOD	N/A	ND	PASS
Daminozide	0.02 / 0.07	$\geq$ LOD	N/A	ND	PASS
Dichlorvos (DDVP)	0.03 / 0.09	$\geq$ LOD	N/A	ND	PASS
Dimethoate	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Ethoprophos	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Etofenprox	0.02 / 0.06	$\geq$ LOD	N/A	ND	PASS
Fenoxy carb	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Fipronil	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Imazalil	0.02 / 0.06	$\geq$ LOD	N/A	ND	PASS
Methiocarb	0.02 / 0.07	$\geq$ LOD	N/A	ND	PASS
Parathion-methyl	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS
Mevinphos	0.03 / 0.09	$\geq$ LOD	N/A	ND	PASS
Paclobutrazol	0.02 / 0.05	$\geq$ LOD	N/A	ND	PASS
Propoxur	0.03 / 0.09	$\geq$ LOD	N/A	ND	PASS
Spiroxamine	0.03 / 0.08	$\geq$ LOD	N/A	ND	PASS
Thiacloprid	0.03 / 0.10	$\geq$ LOD	N/A	ND	PASS

**CATEGORY 2 PESTICIDE TEST RESULTS** - 10/23/2023 ✓ PASS

COMPOUND	LOD/LOQ ( $\mu\text{g/g}$ )	ACTION LIMIT ( $\mu\text{g/g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/g}$ )	RESULT ( $\mu\text{g/g}$ )	RESULT
Abamectin	0.03 / 0.10	0.1	N/A	ND	PASS
Acephate	0.02 / 0.07	0.1	N/A	ND	PASS
Acequinocyl	0.02 / 0.07	0.1	N/A	ND	PASS
Acetamiprid	0.02 / 0.05	0.1	N/A	ND	PASS
Azoxystrobin	0.02 / 0.07	0.1	N/A	ND	PASS
Bifenazate	0.01 / 0.04	0.1	N/A	ND	PASS
Bifenthrin	0.02 / 0.05	3	N/A	ND	PASS
Boscalid	0.03 / 0.09	0.1	N/A	ND	PASS
Captan	0.19 / 0.57	0.7	N/A	ND	PASS
Carbaryl	0.02 / 0.06	0.5	N/A	ND	PASS
Chlorantraniliprole	0.04 / 0.12	10	N/A	ND	PASS
Clofentezine	0.03 / 0.09	0.1	N/A	ND	PASS

**CATEGORY 2 PESTICIDE TEST RESULTS** - 10/23/2023 *continued*

COMPOUND	LOD/LOQ ( $\mu\text{g/g}$ )	ACTION LIMIT ( $\mu\text{g/g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g/g}$ )	RESULT ( $\mu\text{g/g}$ )	RESULT
Cyfluthrin	0.12 / 0.38	2	N/A	ND	PASS
Cypermethrin	0.11 / 0.32	1	N/A	ND	PASS
Diazinon	0.02 / 0.05	0.1	N/A	ND	PASS
Dimethomorph	0.03 / 0.09	2	N/A	ND	PASS
Etoxazole	0.02 / 0.06	0.1	N/A	ND	PASS
Fenhexamid	0.03 / 0.09	0.1	N/A	ND	PASS
Fenpyroximate	0.02 / 0.06	0.1	N/A	ND	PASS
Flonicamid	0.03 / 0.10	0.1	N/A	ND	PASS
Fludioxonil	0.03 / 0.10	0.1	N/A	ND	PASS
Hexythiazox	0.02 / 0.07	0.1	N/A	ND	PASS
Imidacloprid	0.04 / 0.11	5	N/A	ND	PASS
Kresoxim-methyl	0.02 / 0.07	0.1	N/A	ND	PASS
Malathion	0.03 / 0.09	0.5	N/A	ND	PASS
Metalaxyl	0.02 / 0.07	2	N/A	ND	PASS
Methomyl	0.03 / 0.10	1	N/A	ND	PASS
Myclobutanil	0.03 / 0.09	0.1	N/A	ND	PASS
Naled	0.02 / 0.07	0.1	N/A	ND	PASS
Oxamyl	0.04 / 0.11	0.5	N/A	ND	PASS
Pentachloronitrobenzene*	0.03 / 0.09	0.1	N/A	ND	PASS
Permethrin	0.04 / 0.12	0.5	N/A	ND	PASS
Phosmet	0.03 / 0.10	0.1	N/A	ND	PASS
Piperonyl Butoxide	0.02 / 0.07	3	N/A	ND	PASS
Prallethrin	0.03 / 0.08	0.1	N/A	ND	PASS
Propiconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Pyrethrins	0.04 / 0.12	0.5	N/A	ND	PASS
Pyridaben	0.02 / 0.07	0.1	N/A	ND	PASS
Spinetoram	0.02 / 0.07	0.1	N/A	ND	PASS
Spinosad	0.02 / 0.07	0.1	N/A	ND	PASS
Spiromesifen	0.02 / 0.05	0.1	N/A	ND	PASS
Spirotetramat	0.02 / 0.06	0.1	N/A	ND	PASS
Tebuconazole	0.02 / 0.07	0.1	N/A	ND	PASS
Thiamethoxam	0.03 / 0.10	5	N/A	ND	PASS
Trifloxystrobin	0.03 / 0.08	0.1	N/A	ND	PASS


 SOL SHINE | DATE ISSUED 10/23/2023 | OVERALL BATCH RESULT: ✓ PASS
**MYCOTOXIN TEST RESULTS** - 10/23/2023 ✓ PASS

Mycotoxin analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS). **Method:** QSP 1212 - Analysis of Pesticides and Mycotoxins by LC-MS

COMPOUND	LOD/LOQ ( $\mu\text{g}/\text{kg}$ )	ACTION LIMIT ( $\mu\text{g}/\text{kg}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g}/\text{kg}$ )	RESULT ( $\mu\text{g}/\text{kg}$ )	RESULT
Aflatoxin B1	2.0 / 6.0		N/A	ND	
Aflatoxin B2	1.8 / 5.6		N/A	ND	
Aflatoxin G1	1.0 / 3.1		N/A	ND	
Aflatoxin G2	1.2 / 3.5		N/A	ND	
Total Aflatoxin		20		ND	PASS
Ochratoxin A	6.3 / 19.2	20	N/A	ND	PASS

**HEAVY METALS TEST RESULTS** - 10/21/2023 ✓ PASS

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS). **Method:** QSP 1160 - Analysis of Heavy Metals by ICP-MS

COMPOUND	LOD/LOQ ( $\mu\text{g}/\text{g}$ )	ACTION LIMIT ( $\mu\text{g}/\text{g}$ )	MEASUREMENT UNCERTAINTY ( $\mu\text{g}/\text{g}$ )	RESULT ( $\mu\text{g}/\text{g}$ )	RESULT
Arsenic	0.02 / 0.1	0.2	N/A	ND	PASS
Cadmium	0.02 / 0.05	0.2	N/A	<LOQ	PASS
Lead	0.04 / 0.1	0.5	N/A	ND	PASS
Mercury	0.002 / 0.01	0.1	N/A	<LOQ	PASS

**MICROBIOLOGY TEST RESULTS** - 10/23/2023 ✓ PASS

Analysis conducted by polymerase chain reaction (PCR) and fluorescence detection of microbiological contaminants. **Method:** QSP 1221 - Analysis of Microbiological Contaminants

COMPOUND	ACTION LIMIT	RESULT	RESULT
Shiga toxin-producing <i>Escherichia coli</i>	Not Detected in 1g	ND	PASS
<i>Salmonella</i> spp.	Not Detected in 1g	ND	PASS
<i>Aspergillus fumigatus</i>	Not Detected in 1g	ND	PASS
<i>Aspergillus flavus</i>	Not Detected in 1g	ND	PASS
<i>Aspergillus niger</i>	Not Detected in 1g	ND	PASS
<i>Aspergillus terreus</i>	Not Detected in 1g	ND	PASS

**FOREIGN MATERIAL TEST RESULTS** - 10/21/2023 ✓ PASS

Visual analysis includes, but is not limited to, sand, soil, cinders, dirt, mold, hair, insect fragments, and mammalian excreta. **Method:** QSP 1226 - Analysis of Foreign Material in Cannabis and Cannabis Products

COMPOUND	ACTION LIMIT	RESULT
Total Sample Area Covered by Sand, Soil, Cinders, or Dirt	>25%	PASS
Total Sample Area Covered by Mold	>25%	PASS
Total Sample Area Covered by an Imbedded Foreign Material	>25%	PASS
Insect Fragment Count	> 1 per 3 grams	PASS
Hair Count	> 1 per 3 grams	PASS
Mammalian Excreta Count	> 1 per 3 grams	PASS

**WATER ACTIVITY TEST RESULTS** - 10/20/2023 ✓ PASS

**Method:** QSP 1227 - Analysis of Water Activity in Cannabis and Cannabis Products

COMPOUND	LOD/LOQ ( $\text{Aw}$ )	ACTION LIMIT ( $\text{Aw}$ )	MEASUREMENT UNCERTAINTY ( $\text{Aw}$ )	RESULT ( $\text{Aw}$ )	RESULT
Water Activity	0.030 / 0.250	0.65	$\pm 0.0037$	0.542	PASS