

**SUMMARY OF ANALYSIS (ORDER ID: OR37, SAMPLE ID: SA424)**  
**Date Collected: 02/02/2023, Date Received: 02/02/2023, Date Completed: 02/10/2023**

<b>Customer ID:</b> 10	<b>Sample Description:</b> Bulk Flower Punch Breath	<b>Sample Amount:</b> 9.8200g
Southern Sky Brands	<b>Lot Number:</b> 1A42301000004B1000000094	<b>Batch Amount:</b>
128 South Lake Circle	<b>Batch Number:</b> 1A42301000004B1000000007	
Canton, MS 39046	<b>Sample Matrix:</b> Flower	
License: CULV000845		

This page is a summary of the analysis performed. For analytical details, consult the attached page(s). All contaminant action levels are referenced from the State of Mississippi MMJ testing guidelines.

<b>Moisture Content (%)</b>	<b>PASS/FAIL</b>	<b>Water Activity (aw)</b>	<b>PASS/FAIL</b>
8.36	<b>PASS</b>	0.464 @ 25.0°C	<b>PASS</b>

Moisture content/water activity action levels are referenced from the State of Mississippi MMJ testing guidelines.  
 Moisture content levels must be less than 15%. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	18.5	185
CBGA	1.02	10.2
Δ9-THC	0.641	6.41
TOTAL CBD	-	-
TOTAL THC	16.9	169
TOTAL CANNABINOIDS	20.5	205

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>mg/g</b>
β-Myrcene	0.257	2.57
d-Limonene	0.238	2.38
β-Caryophyllene	0.224	2.24
α-Humulene	0.0878	0.878
α-Bisabolol	0.0757	0.757
TOTAL TERPENES	1.12	11.2

<b>Contaminants</b>	<b>PASS/FAIL</b>
Heavy Metals:	<b>PASS</b>
Microbiology:	<b>PASS</b>
Mycotoxins:	<b>PASS</b>
Pesticides:	<b>PASS</b>



Scan the QR code to verify results.

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License: CULV000845

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**Lot Number:** 1A42301000004B1000000094  
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**Sample Matrix:** Flower

**Sample Amount:** 9.8200g  
**Batch Amount:**

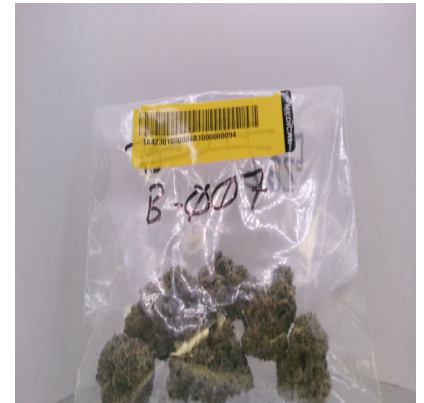
**CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)**

**Analysis Date/Time:** 02/07/2023 1619  
**Analyst:** PG

**Method:** HPLC/DAD  
**Instrument:** Shimadzu LC-2050

**Moisture Content (%):** 8.36  
**Water Activity (aw):** 0.464 @ 25.0°C

<u>Cannabinoid</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>	<u>Result (mg/mL)</u>	<u>Per Serving (mg)</u>	<u>Per Unit (mg)</u>
CBC	ND	ND	0.208	0.485	-	-	-
CBCA	0.288	2.88	0.646	1.51	-	2.88	2.88
CBD	ND	ND	1.47	3.42	-	-	-
CBDA	ND	ND	0.540	1.26	-	-	-
CBDV	ND	ND	0.235	0.549	-	-	-
CBDVA	ND	ND	0.628	1.46	-	-	-
CBG	ND	ND	0.952	2.22	-	-	-
CBGA	1.02	10.2	0.682	1.59	-	10.2	10.2
CBL	ND	ND	1.10	2.57	-	-	-
CBN	ND	ND	0.505	1.18	-	-	-
CBNA	<LOQ	<LOQ	0.545	1.27	-	-	-
Δ9-THC	0.641	6.41	0.606	1.41	-	6.41	6.41
Δ8-THC	ND	ND	0.945	2.21	-	-	-
THCA	18.5	185	0.328	0.768	-	185	185
THCV	ND	ND	0.788	1.84	-	-	-
THCVA	0.0810	0.810	0.252	0.586	-	0.810	0.810
<b>TOTAL</b>	<b>20.5</b>	<b>1.84</b>	<b>205</b>		<b>-</b>	<b>205</b>	<b>205</b>
<b>TOTAL CBC</b>	<b>0.252</b>	<b>0.0202</b>	<b>2.52</b>		<b>-</b>	<b>2.52</b>	<b>2.52</b>
<b>TOTAL CBD</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL CBDV</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL CBG</b>	<b>0.897</b>	<b>0.0808</b>	<b>8.97</b>		<b>-</b>	<b>8.97</b>	<b>8.97</b>
<b>TOTAL CBN</b>	<b>-</b>	<b>-</b>	<b>-</b>		<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL THC</b>	<b>16.9</b>	<b>1.52</b>	<b>169</b>		<b>-</b>	<b>169</b>	<b>169</b>
<b>TOTAL THCV</b>	<b>0.0702</b>	<b>0.00211</b>	<b>0.702</b>		<b>-</b>	<b>0.702</b>	<b>0.702</b>



**SERVING MASS (g):** 1.00  
**SERVINGS/UNIT:** 1

*Deviations from standard operating procedure:*  
None

*Recoveries for all analyte standards:* 90-110%  
*Replicate Uncertainties:* <5% RSD, <20% RPD  
*Sample/Reagent Blanks:* <RL for all analytes

Values for plant matter are adjusted for moisture content.

Total CBC = (CBCA x 0.877) + CBC  
Total CBD = (CBDA x 0.877) + CBD  
Total CBDV = (CBDVA x 0.867) + CBDV  
Total CBG = (CBGA x 0.878) + CBG  
Total CBN = (CBNA x 0.876) + CBN  
Total THC = (THCA x 0.877) + Δ9-THC  
Total THCV = (THCVA x 0.867) + THCV

Percentage results are reported by mass.

mg/g results are reported as mass component per mass material.

*Abbreviations:* DAD - Diode Array Detector, HPLC - High Pressure Liquid Chromatography,  
RPD - Relative Percent Difference, RSD - Relative Standard Deviation, ND - Not Detected Above LOD  
LOD - Limit of Detection, LOQ - Limit of Quantitation

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Southern Sky Brands  
128 South Lake Circle  
Canton, MS 39046  
License: CULV000845

**Sample Description:** Bulk Flower Punch Breath  
**Lot Number:** 1A42301000004B1000000094  
**Batch Number:** 1A42301000004B1000000007  
**Sample Matrix:** Flower

**Sample Amount:** 9.8200g  
**Batch Amount:**

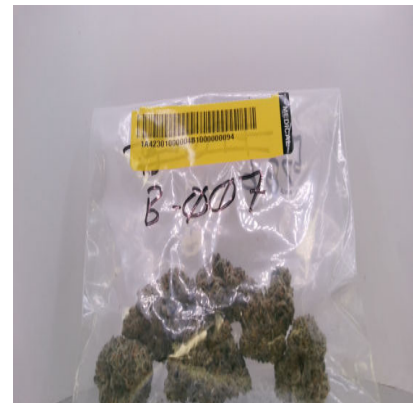
**TERPENOID PROFILE (SOP: SOP-TERPS-001)**

**Analysis Date/Time:** 02/08/2023 1819  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Shimadzu GC-2010SE/AOC-20i

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (%)</u>	<u>Result (mg/g)</u>	<u>LOD (mg/g)</u>	<u>LOQ (mg/g)</u>
α-Bisabolol	0.0757	0.757	0.1	0.3
Camphene	0.00923	0.0923	0.2	0.1
δ-3-Carene	ND	ND	0.08	0.3
β-Caryophyllene	0.224	2.24	0.08	0.3
Caryophyllene oxide	ND	ND	0.07	0.3
p-Cymene	-0.00044	-0.0044	0.05	0.1
Eucalyptol	ND	ND	0.08	0.5
Geraniol	<LOQ	<LOQ	0.2	1
Guaiol	ND	ND	0.09	0.3
α-Humulene	0.0878	0.878	0.06	0.3
Isopulegol	0.00278	0.0278	0.07	0.3
d-Limonene	0.238	2.38	0.05	0.3
Linalool	0.0723	0.723	0.04	0.1
β-Myrcene	0.257	2.57	0.03	0.1
cis-Nerolidol	ND	ND	0.04	0.1
trans-Nerolidol	ND	ND	0.07	0.2
α-Ocimene	<LOQ	<LOQ	0.04	0.08
β-Ocimene	0.0209	0.209	0.03	0.2
α-Pinene	0.0565	0.565	0.08	0.1
β-Pinene	0.0664	0.664	0.06	0.1
α-Terpinene	ND	ND	0.06	0.1
γ-Terpinene	-0.000609	-0.00609	0.05	0.3
Terpinolene	<LOQ	<LOQ	0.05	0.3
<b>TOTAL</b>	<b>1.12</b>	<b>11.2</b>		



*Abbreviations:* GC - Gas Chromatography, MS - Mass Spectrometry, ND - Not Detected Above LOD, LOD - Limit of Detection, LOQ - Limit of Quantitation

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Batch Number: 1A42301000004B1000000007  
Sample Matrix: Flower

Sample Amount: 9.8200g  
Batch Amount:

**MYCOTOXINS/PESTICIDES PROFILE (SOP: SOP-MYCOPEST-001)**

Analysis Date/Time: 02/09/2023 1923  
Analyst: KF

Method: LC/MS/MS  
Instrument: Shimadzu LCMS-8050

Deviations from SOP:  
None

Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Pesticide	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Abamectin (71751-41-2)	ND	0.05	0.4	0.5	Fludioxinil (131341-86-1)	ND	0.05	0.4	0.4
Acephate (30560-19-1)	ND	0.05	0.4	0.4	Hexythiazox (78587-05-0)	ND	0.05	0.4	1
Acequinocyl (57960-19-7)	ND	0.05	0.4	2	Imazalil (35554-44-0)	ND	0.05	0.4	0.2
Acetamiprid (135410-20-7)	ND	0.05	0.4	0.2	Imidacloprid (138261-41-3)	ND	0.05	0.4	0.4
Aldicarb (116-06-3)	ND	0.05	0.4	0.4	Kresoxim-methyl (143390-89-0)	ND	0.05	0.4	0.4
Azoxystrobin (131860-33-8)	ND	0.05	0.4	0.2	Malathion (121-75-5)	ND	0.05	0.4	0.2
Bifenazate (149877-41-8)	ND	0.05	0.4	0.2	Metaxyl (57837-19-1)	ND	0.05	0.4	0.2
Bifenthrin (82657-04-3)	ND	0.05	0.4	0.2	Methiocarb (2032-65-7)	ND	0.05	0.4	0.2
Boscalid (188425-85-6)	ND	0.05	0.4	0.4	Methomyl (16752-77-5)	ND	0.05	0.4	0.4
Carbaryl (63-25-2)	ND	0.05	0.4	0.2	Methyl parathion (298-0-0)	ND	0.05	0.4	0.2
Carbofuran (1563-66-2)	ND	0.05	0.4	0.2	Myclobutanil (88671-89-0)	ND	0.05	0.4	0.2
Chlorantraniliprole (800008-45-7)	ND	0.05	0.4	0.2	Naled (300-76-5)	ND	0.05	0.4	0.5
Chlorfenapyr (122453-73-0)	ND	0.05	0.4	1	Oxamyl (23135-22-0)	ND	0.05	0.4	1
Chlopyrifos (2921-88-2)	ND	0.05	0.4	0.2	Pacllobutrazol (76738-62-0)	ND	0.05	0.4	0.4
Chlomequat chloride (7003-89-6)	ND	0.05	0.4	0.2	Permethrins (52645-53-1)	ND	0.05	0.4	0.2
Clofentezine (74115-24-5)	ND	0.05	0.4	0.2	Phosmet (732-11-6)	ND	0.05	0.4	0.2
Cyfluthrin (68359-37-5)	ND	0.05	0.4	1	Piperonyl butoxide (51-03-6)	ND	0.05	0.4	2
Cypermethrin (52315-07-8)	ND	0.05	0.4	1	Prallethrins (2331-36-9)	ND	0.05	0.4	0.2
Daminozide (1596-84-5)	ND	0.05	0.4	1	Propiconazole (60207-90-1)	ND	0.05	0.4	0.4
DDVP (62-73-7)	ND	0.05	0.4	0.1	Propoxur (114-26-1)	ND	0.05	0.4	0.2
Diazinon (333-41-5)	ND	0.05	0.4	0.2	Pyrethrins (8003-34-7)	ND	0.05	0.4	1
Dimethoate (60-51-5)	ND	0.05	0.4	0.2	Pyridaben (96489-71-3)	ND	0.05	0.4	0.2
Ethoprophos (13194-48-4)	ND	0.05	0.4	0.2	Spinosad (168316-95-8)	ND	0.05	0.4	0.2
Etofenprox (80844-07-1)	ND	0.05	0.4	0.4	Spiromesifen (283594-90-1)	ND	0.05	0.4	0.2
Etoxazole (153233-91-1)	ND	0.05	0.4	0.2	Spirotetramat (203313-25-1)	ND	0.05	0.4	0.2
Fenoxycarb (72490-01-8)	ND	0.05	0.4	0.2	Spiroxamine (118134-30-8)	ND	0.05	0.4	0.4
Fenpyroximate (134098-61-6)	ND	0.05	0.4	0.4	Tebuconazole (80443-41-0)	ND	0.05	0.4	0.4
Fipronil (120068-37-3)	ND	0.05	0.4	0.4	Thiacloprid (111988-49-9)	ND	0.05	0.4	0.2
Fonicamid (158062-67-0)	ND	0.05	0.4	1	Thiamethoxam (153719-23-4)	ND	0.05	0.4	0.2
					Trifloxystrobin (141517-21-7)	ND	0.05	0.4	0.2

Mycotoxin	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)	Mycotoxin	Result (µg/g)	LOD (µg/g)	LOQ (µg/g)	Action Level (µg/g)
Aflatoxin B1 (71751-41-2)	ND	0.05	0.4	0.020	Aflatoxin G1 (111988-49-9)	ND	0.05	0.4	0.020
Aflatoxin B2 (30560-19-1)	ND	0.05	0.4	0.020	Aflatoxin G2 (153719-23-4)	ND	0.05	0.4	0.020
					Ochratoxin A (141517-21-7)	ND	0.05	0.4	0.020



**Color Key**

RESULT < AL
RESULT > AL

Permethrins measured as the cumulative residue of the *cis*- and *trans*- permethrin isomers.

Action levels are referenced from the State of Mississippi MMJ testing guidelines.

A value of "-" for the action level means that analyte is not currently regulated by the regulations referenced above.

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Abbreviations: LC - Liquid Chromatography, MS - Mass Spectrometry, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification, ND - Not Detected Above LOD

Pesticide	Synonym(s)	Pesticide	Synonym(s)	Pesticide	Synonym(s)
Cyfluthrin	Baythroid	Myclobutanil	Sythane	Propiconazole	Tilt
DDVP	Dichlorvos	Naled	Dibrom	Propoxur	Baygon
Ethoprophos	Prophos	Phosmet	Imidan		

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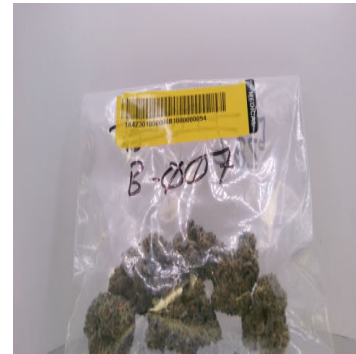
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Canton, MS 39046	<b>Sample Matrix:</b> Flower	
License: CULV000845		

**HEAVY METAL PROFILE (SOP: SOP-ICP-200.8)**

<b>Analysis Date/Time:</b> 02/07/2023 1700	<b>Method:</b> ICP/MS	<b>Deviations from SOP:</b>
<b>Analyst:</b> KF	<b>Instrument:</b> Shimadzu ICPMS-2030LF	None

<u>Heavy Metal</u>	<u>Result</u> (µg/g)	<u>LOD</u> (µg/g)	<u>LOQ</u> (µg/g)	<u>Action Level</u> (µg/g)
Arsenic (As)	ND	0.06	0.1	0.4
Cadmium (Cd)	ND	0.04	0.1	0.4
Lead (Pb)	ND	0.1	0.2	1.0
Mercury (Hg)	ND	0.09	0.2	1.2



*Abbreviations:* ICP - Inductively-Coupled Plasma, MS - Mass Spectrometry, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation, ND - Not Detected Above LOD

**Color Key**

**RESULT < AL**  
**RESULT > AL**

**MICROBIOLOGICAL PROFILE (SOP: SOP-MICRO-001)**

<b>Analysis Date/Time:</b> 02/09/2023 1352	<b>Method:</b> PathogenDX	<b>Deviations from SOP:</b>
<b>Analyst:</b> PW	<b>Instrument:</b> Sensovation AG 733	None

<u>Bacteria/Microbe</u>	<u>Result</u> (CFU/g)	<u>Action Level</u> (CFU/g)
Total Escherichia coli	Absent	100
Shiga toxin-producing Escherichia coli	Absent	Present
Salmonella spp.	Absent	Present
Aspergillus flavus	Absent	Present
Aspergillus fumigatus	Absent	Present
Aspergillus niger	Absent	Present
Aspergillus terreus	Absent	Present

**Color Key**

**RESULT < AL**  
**RESULT > AL**

**Reporting Limit (CFU/g)**  
1

*Abbreviations:* CFU - Colony-Forming Unit, RL - Reporting Limit, AL - Action Level, TNTC - Too Numerous To Count, NT - Not Tested, Absent - Not Detected Above RL, Present - Detected Above RL

Action levels for heavy metals and microbiology are referenced from the State of Mississippi MMJ testing guidelines.

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