

SUMMARY OF ANALYSIS (ORDER ID: OR37, SAMPLE ID: SA425)
Date Collected: 02/02/2023, Date Received: 02/02/2023, Date Completed: 02/10/2023

| | | |
|------------------------|---|--------------------------------|
| Customer ID: 10 | Sample Description: Bulk Flower PB Souffle | Sample Amount: 23.3700g |
| Southern Sky Brands | Lot Number: 1A42301000004B1000000096 | Batch Amount: |
| 128 South Lake Circle | Batch Number: 1A42301000004B1000000004 | |
| Canton, MS 39046 | Sample Matrix: 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.

| | | | |
|-----------------------------|------------------|----------------------------|------------------|
| Moisture Content (%) | PASS/FAIL | Water Activity (aw) | PASS/FAIL |
| 11.0 | PASS | 0.493 @ 25.0°C | PASS |

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.

| Cannabinoids (Top 3) | (%) | mg/g |
|-----------------------------|------------|-------------|
| THCA | 23.1 | 231 |
| Δ9-THC | 2.59 | 25.9 |
| CBGA | 1.68 | 16.8 |
| TOTAL CBD | - | - |
| TOTAL THC | 22.9 | 229 |
| TOTAL CANNABINOIDS | 28.0 | 280 |

| Terpenes (Top 5) | (%) | mg/g |
|-------------------------|------------|-------------|
| β-Myrcene | 1.59 | 15.9 |
| d-Limonene | 0.245 | 2.45 |
| Linalool | 0.199 | 1.99 |
| β-Caryophyllene | 0.161 | 1.61 |
| β-Ocimene | 0.0915 | 0.915 |
| TOTAL TERPENES | 2.46 | 24.6 |

| Contaminants | PASS/FAIL |
|---------------------|------------------|
| Heavy Metals: | PASS |
| Microbiology: | PASS |
| Mycotoxins: | PASS |
| Pesticides: | PASS |



Scan the QR code to verify results.

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128 South Lake Circle
Canton, MS 39046
License: CULV000845

Sample Description: Bulk Flower PB Souffle
Lot Number: 1A42301000004B1000000096
Batch Number: 1A42301000004B1000000004
Sample Matrix: Flower

Sample Amount: 23.3700g
Batch Amount:

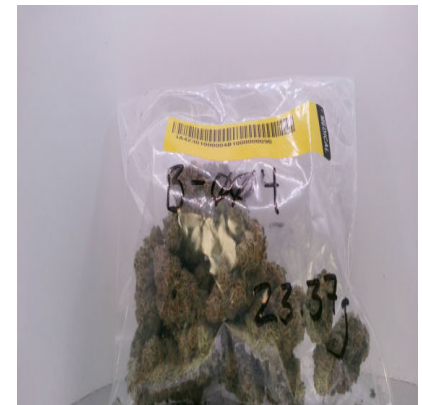
CANNABINOID (POTENCY) PROFILE (SOP: SOP-CANN-001)

Analysis Date/Time: 02/07/2023 1630
Analyst: PG

Method: HPLC/DAD
Instrument: Shimadzu LC-2050

Moisture Content (%): 11.0
Water Activity (aw): 0.493 @ 25.0°C

| Cannabinoid | Result (%) | Result (mg/g) | LOD (mg/g) | LOQ (mg/g) | Result (mg/mL) | Per Serving (mg) | Per Unit (mg) |
|-------------------|---------------|----------------|--------------|------------|----------------|------------------|---------------|
| CBC | ND | ND | 0.217 | 0.506 | - | - | - |
| CBCA | 0.533 | 5.33 | 0.673 | 1.57 | - | 5.33 | 5.33 |
| CBD | ND | ND | 1.53 | 3.57 | - | - | - |
| CBDA | <LOQ | <LOQ | 0.563 | 1.31 | - | - | - |
| CBDV | ND | ND | 0.245 | 0.573 | - | - | - |
| CBDVA | ND | ND | 0.654 | 1.53 | - | - | - |
| CBG | <LOQ | <LOQ | 0.993 | 2.32 | - | - | - |
| CBGA | 1.68 | 16.8 | 0.711 | 1.66 | - | 16.8 | 16.8 |
| CBL | ND | ND | 1.15 | 2.68 | - | - | - |
| CBN | ND | ND | 0.527 | 1.23 | - | - | - |
| CBNA | ND | ND | 0.569 | 1.33 | - | - | - |
| Δ9-THC | 2.59 | 25.9 | 0.632 | 1.47 | - | 25.9 | 25.9 |
| Δ8-THC | ND | ND | 0.985 | 2.30 | - | - | - |
| THCA | 23.1 | 231 | 0.342 | 0.801 | - | 231 | 231 |
| THCV | ND | ND | 0.822 | 1.92 | - | - | - |
| THCVA | 0.104 | 1.04 | 0.263 | 0.611 | - | 1.04 | 1.04 |
| TOTAL | 28.0 | 2.51 | 280 | | - | 280 | 280 |
| TOTAL CBC | 0.468 | 0.0374 | 4.68 | | - | 4.68 | 4.68 |
| TOTAL CBD | - | - | - | | - | - | - |
| TOTAL CBDV | - | - | - | | - | - | - |
| TOTAL CBG | 1.48 | 0.133 | 14.8 | | - | 14.8 | 14.8 |
| TOTAL CBN | - | - | - | | - | - | - |
| TOTAL THC | 22.9 | 2.06 | 229 | | - | 229 | 229 |
| TOTAL THCV | 0.0904 | 0.00271 | 0.904 | | - | 0.904 | 0.904 |



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 PB Souffle
Lot Number: 1A42301000004B1000000096
Batch Number: 1A42301000004B1000000004
Sample Matrix: Flower

Sample Amount: 23.3700g
Batch Amount:

TERPENOID PROFILE (SOP: SOP-TERPS-001)

Analysis Date/Time: 02/08/2023 1842
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 | 0.0198 | 0.198 | 0.1 | 0.3 |
| Camphene | 0.00546 | 0.0546 | 0.2 | 0.1 |
| δ-3-Carene | ND | ND | 0.08 | 0.3 |
| β-Caryophyllene | 0.161 | 1.61 | 0.08 | 0.3 |
| Caryophyllene oxide | ND | ND | 0.07 | 0.3 |
| p-Cymene | -0.000439 | -0.00439 | 0.05 | 0.1 |
| Eucalyptol | 0.000107 | 0.00107 | 0.08 | 0.5 |
| Geraniol | ND | ND | 0.2 | 1 |
| Guaiol | ND | ND | 0.09 | 0.3 |
| α-Humulene | 0.0542 | 0.542 | 0.06 | 0.3 |
| Isopulegol | ND | ND | 0.07 | 0.3 |
| d-Limonene | 0.245 | 2.45 | 0.05 | 0.3 |
| Linalool | 0.199 | 1.99 | 0.04 | 0.1 |
| β-Myrcene | 1.59 | 15.9 | 0.03 | 0.1 |
| cis-Nerolidol | ND | ND | 0.04 | 0.1 |
| trans-Nerolidol | 0.00410 | 0.0410 | 0.07 | 0.2 |
| α-Ocimene | <LOQ | <LOQ | 0.04 | 0.08 |
| β-Ocimene | 0.0915 | 0.915 | 0.03 | 0.2 |
| α-Pinene | 0.0308 | 0.308 | 0.08 | 0.1 |
| β-Pinene | 0.0630 | 0.630 | 0.06 | 0.1 |
| α-Terpinene | ND | ND | 0.06 | 0.1 |
| γ-Terpinene | ND | ND | 0.05 | 0.3 |
| Terpinolene | <LOQ | <LOQ | 0.05 | 0.3 |
| TOTAL | 2.46 | 24.6 | | |



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

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Canton, MS 39046
License: CULV000845

Sample Description: Bulk Flower PB Souffle
Lot Number: 1A42301000004B1000000096
Batch Number: 1A42301000004B1000000004
Sample Matrix: Flower

Sample Amount: 23.3700g
Batch Amount:

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

Analysis Date/Time: 02/09/2023 1939
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 | Methoxyfenosulfuron (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 |
| Chlorpyrifos (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 | Prallethrin (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 |



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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| 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 |

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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Lot Number: 1A42301000004B1000000096
Batch Number: 1A42301000004B1000000004
Sample Matrix: Flower

Sample Amount: 23.3700g
Batch Amount:

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

Analysis Date/Time: 02/07/2023 1700
Analyst: KF

Method: ICP/MS
Instrument: Shimadzu ICPMS-2030LF

Deviations from SOP:
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)

Analysis Date/Time: 02/09/2023 1352
Analyst: PW

Method: PathogenDX
Instrument: Sensovation AG 733

Deviations from SOP:
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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