

SUMMARY OF ANALYSIS (ORDER ID: OR70, SAMPLE ID: SA660)
Date Collected: 02/16/2023, Date Received: 02/17/2023, Date Completed: 02/24/2023

Customer ID: 10
Southern Sky Brands
128 South Lake Circle
Canton, MS 39046
License: CULV000845

Sample Description: Bulk Flower GMO Sherbert
Lot Number: 1A42301000004B1000000289
Batch Number: 1A42301000004B1000000274
Sample Matrix: Flower

Sample Amount: 13.62g
Batch Amount:

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
11.3	PASS	0.496 @ 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.

<u>Cannabinoids (Top 3)</u>	<u>(%)</u>	<u>mg/g</u>
THCA	19.8	198
Δ9-THC	0.365	3.65
CBD	-	-
TOTAL CBD	-	-
TOTAL THC	17.7	177
TOTAL CANNABINOIDS	20.1	201

<u>Terpenes (Top 5)</u>	<u>(%)</u>	<u>mg/g</u>
β-Caryophyllene	0.406	4.06
d-Limonene	0.374	3.74
β-Myrcene	0.311	3.11
α-Humulene	0.183	1.83
Linalool	0.0948	0.948
TOTAL TERPENES	1.55	15.5

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



Scan the QR code to verify results.

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

Analysis Date/Time: 02/18/2023 2406
Analyst: PG

Method: HPLC/DAD
Instrument: Shimadzu LC-2050

Moisture Content (%): 11.3
Water Activity (aw): 0.496 @ 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	0.213	0.498	-	-	-
CBCA	ND	ND	0.663	1.55	-	-	-
CBD	ND	ND	1.50	3.51	-	-	-
CBDA	ND	ND	0.554	1.29	-	-	-
CBDV	ND	ND	0.241	0.563	-	-	-
CBDVA	ND	ND	0.644	1.50	-	-	-
CBG	ND	ND	0.977	2.28	-	-	-
CBGA	ND	ND	0.700	1.63	-	-	-
CBL	ND	ND	1.13	2.64	-	-	-
CBN	ND	ND	0.518	1.21	-	-	-
CBNA	ND	ND	0.560	1.30	-	-	-
Δ9-THC	0.365	3.65	0.621	1.45	-	3.65	3.65
Δ8-THC	ND	ND	0.970	2.26	-	-	-
THCA	19.8	198	0.337	0.788	-	198	198
THCV	ND	ND	0.809	1.88	-	-	-
THCVA	ND	ND	0.258	0.601	-	-	-
TOTAL	20.1	201				201	201
TOTAL CBC	-	-				-	-
TOTAL CBD	-	-				-	-
TOTAL CBDV	-	-				-	-
TOTAL CBG	-	-				-	-
TOTAL CBN	-	-				-	-
TOTAL THC	17.7	177				177	177
TOTAL THCV	-	-				-	-



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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Sample Matrix: Flower

Sample Amount: 13.62g
Batch Amount:

TERPENOID PROFILE (SOP: SOP-TERPS-001)

Analysis Date/Time: 02/18/2023 0553
Analyst: KF

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

Deviations from SOP:
None

Terpene	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
α-Bisabolol	0.0309	0.309	0.1	0.3
Camphene	0.00836	0.0836	0.2	0.1
δ-3-Carene	ND	ND	0.08	0.3
β-Caryophyllene	0.406	4.06	0.08	0.3
Caryophyllene oxide	ND	ND	0.07	0.3
p-Cymene	ND	ND	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	0.183	1.83	0.06	0.3
Isopulegol	ND	ND	0.07	0.3
d-Limonene	0.374	3.74	0.05	0.3
Linalool	0.0948	0.948	0.04	0.1
β-Myrcene	0.311	3.11	0.03	0.1
cis-Nerolidol	ND	ND	0.04	0.1
trans-Nerolidol	0.00453	0.0453	0.07	0.2
α-Ocimene	ND	ND	0.04	0.08
β-Ocimene	0.00450	0.0450	0.03	0.2
α-Pinene	0.0425	0.425	0.08	0.1
β-Pinene	0.0723	0.723	0.06	0.1
α-Terpinene	ND	ND	0.06	0.1
γ-Terpinene	ND	ND	0.05	0.3
Terpinolene	0.0188	0.188	0.05	0.3
TOTAL	1.55	15.5		



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

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Sample Amount: 13.62g
Batch Amount:

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

Analysis Date/Time: 02/18/2023 0202
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
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	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



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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Batch Amount:

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

Analysis Date/Time: 02/21/2023 1833
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)	0.477	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: 02/21/2023 0900
Analyst: PG

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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