

**SUMMARY OF ANALYSIS (SAMPLE ID: SA35860)**

<b>Testing Location:</b> Arkansas 232 S. Broadview St. Greenbrier, AR 72058 License: ADH 113	<b>Customer ID:</b> 2161 River Valley Relief Cultivation 5601 Old Greenwood Rd Suite C Fort Smith, AR 72903 License: 00065C	<b>Order ID:</b> OR10580 <b>Lot Number:</b> M00065C13134791132 <b>Production Run:</b> 4039H20230807DOM-1	<b>Sample Type:</b> Primary <b>Matrix:</b> Flower <b>Mass:</b> 15Grams <b>Date Collected:</b> 08/21/2023 <b>Date Received:</b> 08/21/2023 <b>Date Completed:</b> 08/25/2023
<b>Cultivar (Strain) or Sample Description:</b> Don Mega			

\*This page is simply a summary of the analysis performed. For analytical details, please consult the individual Certificate(s) of Analysis for each of the specific test(s) performed. All contaminant action levels are referenced from the State of Arkansas MMJ testing guidelines.

**Moisture Content (%)**

12.2

**Water Activity (aw)**

0.555 @ 24.5°C

**PASS/FAIL**

**PASS**

Moisture content/water activity action levels are referenced from the State of Arkansas MMJ testing guidelines.

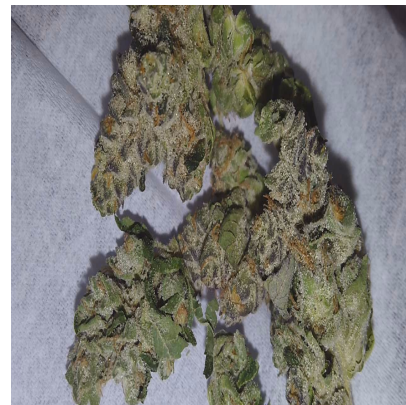
Moisture content levels less than 15% are recommended but the sample does not fail. Water activity levels must be less than 0.65aw.

<b>Cannabinoids (Top 3)</b>	<b>(%)</b>	<b>mg/g</b>
THCA	37.3	373
CBGA	0.767	7.67
Δ9-THC	0.319	3.19
TOTAL CBD	-	-
TOTAL THC	33.0	330
TOTAL CANNABINOIDS	38.7	387

<b>Terpenes (Top 5)</b>	<b>(%)</b>	<b>µg/g</b>
β-Myrcene	0.763	7630
trans-Nerolidol	0.455	4550
d-Limonene	0.265	2650
β-Caryophyllene	0.200	2000
β-Pinene	0.0816	816
TOTAL TERPENES	1.76	17600

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

**Sample Picture Upon Receipt**



Scan the QR code to verify results.

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*Kyle W. Felling*  
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Laboratory Director

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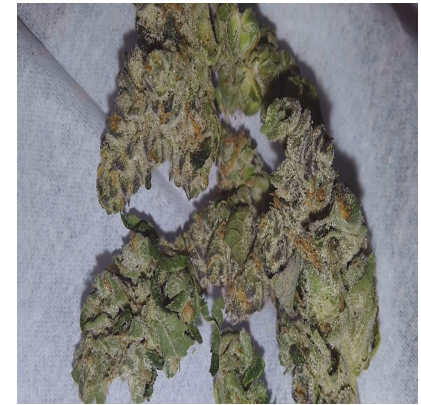
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<b>Cultivar (Strain) or Sample Description:</b> Don Mega			<b>Date Completed:</b> 08/25/2023

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

**Analysis Date/Time:** 08/22/2023 1826      **Method:** HPLC/DAD      **Moisture Content (%):** 12.2  
**Analyst:** PW      **Instrument:** Agilent 1100      **Water Activity (aw):** 0.555 @ 24.5°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	0.0437	0.102	-	-	-
CBCA	ND	ND	0.136	0.317	-	-	-
CBD	ND	ND	0.308	0.719	-	-	-
CBDV	ND	ND	0.0494	0.115	-	-	-
CBDVA	ND	ND	0.132	0.308	-	-	-
CBG	0.100	1.00	0.200	0.467	-	0.881	0.881
CBGA	0.767	7.67	0.284	0.335	-	6.73	6.73
CBL	ND	ND	0.231	0.540	-	-	-
CBN	ND	ND	0.106	0.248	-	-	-
CBNA	ND	ND	0.115	0.267	-	-	-
Δ9-THC	0.319	3.19	0.127	0.297	-	2.80	2.80
Δ8-THC	ND	ND	0.199	0.463	-	-	-
THCA	37.3	373	0.0690	0.161	-	328	328
THCV	ND	ND	0.166	0.386	-	-	-
THCVA	0.186	1.86	0.0529	0.123	-	1.63	1.63
<b>TOTAL</b>	<b>38.7</b>	<b>387</b>				<b>340</b>	<b>340</b>
<b>TOTAL CBC</b>	-	-				-	-
<b>TOTAL CBD</b>	-	-				-	-
<b>TOTAL CBDV</b>	-	-				-	-
<b>TOTAL CBG</b>	0.773	7.73				6.79	6.79
<b>TOTAL CBN</b>	-	-				-	-
<b>TOTAL THC</b>	33.0	330				290	290
<b>TOTAL THCV</b>	0.161	1.61				1.41	1.41



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

"-" Not detected above LOD.

*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 = (CBDV 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) + THCVA

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, RL - Reporting Limit, RPD - Relative Percent Difference, RSD - Relative Standard Deviation, DET - Detected (less than LOQ), LOD - Limit of Detection, LOQ - Limit of Quantitation, UM - Measurement Uncertainty

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<b>Cultivar (Strain) or Sample Description:</b> Don Mega			<b>Date Completed:</b> 08/25/2023

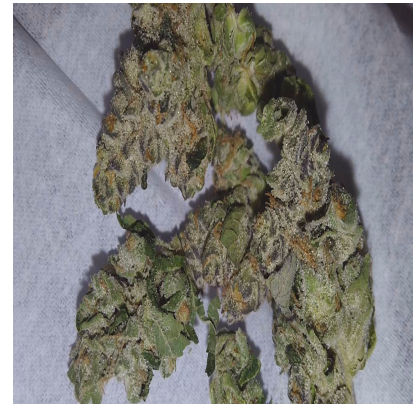
**TERPENOID PROFILE**

**Analysis Date/Time:** 08/22/2023 2045  
**Analyst:** KF

**Method:** GC/MS  
**Instrument:** Agilent 7890/5975

**Deviations from SOP:**  
None

<u>Terpene</u>	<u>Result (µg/g)</u>	<u>Result (%)</u>	
α-Bisabolol	ND	-	
Camphene	ND	-	
δ-3-Carene	ND	-	
β-Caryophyllene	2000	0.200	■
Caryophyllene oxide	ND	-	
p-Cymene	ND	-	
Eucalyptol	ND	-	
Geraniol	ND	-	
Guaiol	ND	-	
α-Humulene	ND	-	
Isopulegol	ND	-	
d-Limonene	2650	0.265	■
Linalool	ND	-	
β-Myrcene	7630	0.763	■
cis-Nerolidol	ND	-	
trans-Nerolidol	4550	0.455	■
α-Ocimene	ND	-	
β-Ocimene	ND	-	
α-Pinene	ND	-	
β-Pinene	816	0.0816	■
α-Terpinene	ND	-	
γ-Terpinene	ND	-	
Terpinolene	ND	-	
<b>TOTAL</b>	<b>17600</b>	<b>1.76</b>	



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

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**Reporting Limit (µg/g): 47.9**

"-" Not detected above LOD.

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*Kyle W. Felling*  
Kyle W. Felling, Ph.D.  
Laboratory Director



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**PESTICIDES PROFILE (SOP: SOP-PEST-001)**

**Analysis Date/Time:** 01/01/1900 1200      **Method:** LC/MS/MS      **Deviations from SOP:** None  
**Analyst:** KF      **Instrument:** Shimadzu LC-8050

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)	-	0.0477	0.382	0.5	Kresoxim-methyl (143390-89-0)	-	0.0477	0.382	0.4
Acephate (30560-19-1)	-	0.0477	0.382	0.4	Malathion (121-75-5)	-	0.0477	0.382	0.2
Acetamiprid (135410-20-7)	-	0.0477	0.382	0.2	Metalaxyl (57837-19-1)	-	0.0477	0.382	0.2
Aldicarb (116-06-3)	-	0.0477	0.382	0.4	Methiocarb (2032-65-7)	-	0.0477	0.382	0.2
Azoxystrobin (131860-33-8)	-	0.0477	0.382	0.2	Methomyl (16752-77-5)	-	0.0477	0.382	0.4
Bifenazate (149877-41-8)	-	0.0477	0.382	0.2	Methyl parathion (298-0-0)	-	0.0477	0.382	0.2
Bifenthrin (82657-04-3)	-	0.0477	0.382	0.2	MGK 264 (113-48-4)	-	0.0477	0.382	0.2
Boscalid (188425-85-6)	-	0.0477	0.382	0.4	Myclobutanil (88671-89-0)	-	0.0477	0.382	0.2
Carbaryl (63-25-2)	-	0.0477	0.382	0.2	Naled (300-76-5)	-	0.0477	0.382	0.5
Carbofuran (1563-66-2)	-	0.0477	0.382	0.2	Oxamyl (23135-22-0)	-	0.0477	0.382	1
Chlorantraniliprole (800008-45-7)	-	0.0477	0.382	0.2	Pacllobutrazol (76738-62-0)	-	0.0477	0.382	0.4
Chlorfenapyr (122453-73-0)	-	0.0477	0.382	1	Permethrins (52645-53-1)	-	0.0477	0.382	0.2
Chlorpyrifos (2921-88-2)	-	0.0477	0.382	0.2	Phosmet (732-11-6)	-	0.0477	0.382	0.2
Clofentezine (74115-24-5)	-	0.0477	0.382	0.2	Piperonyl butoxide (51-03-6)	-	0.0477	0.382	2
Cyfluthrin (68359-37-5)	-	0.0477	0.382	1	Prallethrins (2331-36-9)	-	0.0477	0.382	0.2
Cypermethrin (52315-07-8)	-	0.0477	0.382	1	Propiconazole (60207-90-1))	-	0.0477	0.382	0.4
Daminozide (1596-84-5)	-	0.0477	0.382	1	Propoxur (114-26-1)	-	0.0477	0.382	0.2
DDVP (62-73-7)	-	0.0477	0.382	0.1	Pyrethrins (8003-34-7)	-	0.0477	0.382	1
Diazinon (333-41-5)	-	0.0477	0.382	0.2	Pyridaben (96489-71-3)	-	0.0477	0.382	0.2
Dimethoate (60-51-5)	-	0.0477	0.382	0.2	Spinosad (168316-95-8)	-	0.0477	0.382	0.2
Ethoprophos (13194-48-4)	-	0.0477	0.382	0.2	Spiromesifen (283594-90-1)	-	0.0477	0.382	0.2
Etofenprox (80844-07-1)	-	0.0477	0.382	0.4	Spirotetramat (203313-25-1)	-	0.0477	0.382	0.2
Etoxazole (153233-91-1)	-	0.0477	0.382	0.2	Spiroxamine (118134-30-8)	-	0.0477	0.382	0.4
Fenoxycarb (72490-01-8)	-	0.0477	0.382	0.2	Tebuconazole (80443-41-0)	-	0.0477	0.382	0.4
(E)-Fenpyroximate (134098-61-6)	-	0.0477	0.382	0.4	Thiacloprid (111988-49-9)	-	0.0477	0.382	0.2
Fipronil (120068-37-3)	-	0.0477	0.382	0.4	Thiamethoxam (153719-23-4)	-	0.0477	0.382	0.2
Fonicamid (158062-67-0)	-	0.0477	0.382	1	Trifloxystrobin (141517-21-7)	-	0.0477	0.382	0.2
Fludioxinil (131341-86-1)	-	0.0477	0.382	0.4					
Hexythiazox (78587-05-0)	-	0.0477	0.382	1					
Imazalil (35554-44-0)	-	0.0477	0.382	0.2					
Imidacloprid (138261-41-3)	-	0.0477	0.382	0.4					



**Color Key**

RESULT < AL
RESULT > AL

"DET" detected less than LOQ  
 "-" not detected above LOD  
 Permethrins measured as the cumulative residue of the *cis*- and *trans*- permethrin isomers.  
 Pyrethrins measured as the cumulative residue of the pyrethrin I, cinerin I, and jasmolin I isomers.  
 Action levels are referenced from the State of Arkansas 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, RL - Reporting Limit, AL - Action Level, CAS - Chemical Abstract Services, LOD - Limit of Detection, LOQ - Limit of Quantification

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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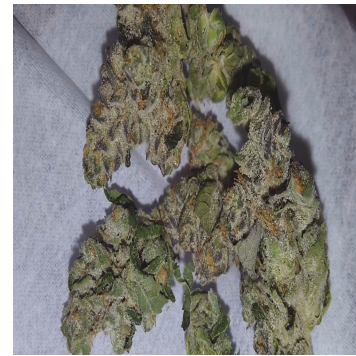
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<b>Cultivar (Strain) or Sample Description:</b> Don Mega			<b>Date Completed:</b> 08/25/2023

**HEAVY METAL PROFILE (SOP: SOP-ICP-200.6)**

**Analysis Date/Time:** 08/24/2023 2142 (ICP/OES)      **Method:** ICP/MS      **Deviations from SOP:**  
**Analysis Date/Time:** - (DMA)      **Instrument:** Agilent 7500ce      None  
**Analyst:** KF

<u>Heavy Metal</u>	<u>Result</u> (µg/kg)	<u>LOD</u> (µg/kg)	<u>LOQ</u> (µg/kg)	<u>Action Level</u> (µg/kg)
Arsenic (As)	-	57.5	91.0	200
Cadmium (Cd)	-	57.5	91.0	200
Lead (Pb)	-	57.5	91.0	500
Mercury (Hg)	-	57.5	91.0	100



*Abbreviations:* ICP - Inductively-Coupled Plasma, OES - Optical Emission Spectroscopy,  
 DMA - Direct Mercury Analyzer, RL - Reporting Limit, AL - Action Level, LOD - Limit of Detection, LOQ - Limit of Quantitation

**Color Key**



"DET" detected less than LOQ

"-" not detected above LOD

Action levels for heavy metals are referenced from the State of Arkansas MMJ testing guidelines.

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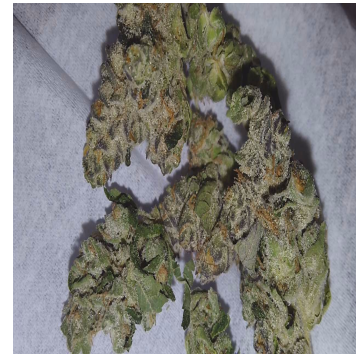
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**MICROBIOLOGICAL PROFILE (SOP: SOP-Micro-001)**

**Analysis Date/Time:** 08/24/2023 1021      **Method:** Hardy Diagnostics CompactDry      **Deviations from SOP:**  
**Analyst:** PW      **Instrument:** Thermo Incubator      None

<b>Bacteria/Microbe</b>	<b>Result (CFU/g)</b>	<b>Action Level (CFU/g)</b>
Aerobic Plate Count	NT	-
Coliforms, Total	Absent	1
Escherichia Coli (E. Coli)	Absent	100
Mold/Yeast	NT	-
Pseudomonas aeruginosa	NT	-
Salmonella spp.	NT	-
Staphylococcus aureus	NT	-



**Abbreviations:** EC - Escherichia Coli, 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

**Color Key**

**RESULT < AL**

**RESULT > AL**

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

Action levels for microbiology are referenced from the State of Arkansas MMJ testing guidelines.  
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