

CMS Ventures - GSI
13454 N. Black Canyon Hwy
Phoenix, AZ 85029
14804570860
Lic#: 00000014ESNA15249640

Sample: S309051-03
CC ID#: 2309C4L0050.2841
Lot#: N/A
Batch#: 0520BLTDK
Batch Size: N/A

FINAL

Sample Name: The Duke

Strain Name: The Duke

Matrix: Flower

Amount Received: 10.9326 g

Sample Collected: 09/13/2023 5:30

Sample Received: 09/13/2023 9:36

Report Created: 09/20/2023 19:03

SAFETY



Microbials PASS	Residual Solvents NOT TESTED	Mycotoxins NOT TESTED	Pesticides PASS
Metals PASS			

Terpenes

2.32%
Total Terpenes (Q3)

Cannabinoid Results

23.9% Sum of Cannabinoids (Q3)	21.7% Total THC	<LOQ Total CBD	RATIO 1 : 0 THC : CBD
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Total THC= THCA * 0.877 + d9-THC
Total CBD= CBDA * 0.877 + CBD



Jillian Blaney
Technical Laboratory Director

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Cannabinoids by HPLC-DAD - Compliance

Date Analyzed: 09/15/2023 Analyst Initials: DRF SOP: C4-SOP-CHEM-003

Analyte	LOQ	Result	Result	Qualifier
	%	%	mg/g	
THCA	0.399	13.8	138	
d9-THC	0.399	9.62	96.2	
d8-THC	0.399	<LOQ	< LOQ	
CBDA	0.399	<LOQ	< LOQ	
CBD	0.399	<LOQ	< LOQ	
CBG	0.399	<LOQ	< LOQ	
CBN	0.399	<LOQ	< LOQ	
CBC	0.399	0.471	4.71	
Sum of Cannabinoids	0.399	23.9	239	Q3
Total THC	0.399	21.7	217	
Total CBD	0.399	<LOQ	< LOQ	
Total Cannabinoids	0.399	22.2	222	Q3

Total THC= THCA * 0.877 + d9-THC. Total CBD= CBDA * 0.877 + CBD.

Terpenes by GC-FID- Noncompliance

Date Analyzed: 09/15/2023 Analyst Initials: SML SOP: C4-SOP-CHEM-012

Analyte	LOQ	Result	Result	Qualifier
	%	%	mg/g	
beta-Myrcene	0.027	1.35	13.5	Q3
Ocimene	0.027	0.359	3.59	Q3
beta-Caryophyllene	0.027	0.201	2.01	Q3
alpha-Pinene	0.027	0.143	1.43	Q3
Linalool	0.027	0.141	1.41	Q3
Limonene	0.027	0.069	0.690	Q3
alpha-Humulene	0.027	0.061	0.612	Q3
p-Cymene	0.027	<LOQ	< LOQ	Q3
gamma-Terpinene	0.027	<LOQ	< LOQ	Q3
Caryophyllene Oxide	0.027	<LOQ	< LOQ	Q3
Eucalyptol	0.027	<LOQ	< LOQ	Q3
alpha-Bisabolol	0.027	<LOQ	< LOQ	Q3
Guaiol	0.027	<LOQ	< LOQ	Q3
cis-Nerolidol	0.027	<LOQ	< LOQ	Q3
Geraniol	0.027	<LOQ	< LOQ	Q3
Isopulegol	0.027	<LOQ	< LOQ	Q3
Terpinolene	0.027	<LOQ	< LOQ	Q3
alpha-Terpinene	0.027	<LOQ	< LOQ	Q3
3-Carene	0.027	<LOQ	< LOQ	Q3
beta-Pinene	0.027	<LOQ	< LOQ	Q3
Camphene	0.027	<LOQ	< LOQ	Q3
Total Terpenes		2.324	23.24	

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Pesticides by LC/MS/MS - Compliance

Pass

Date Analyzed: 09/19/2023 Analyst Initials: JCB SOP: C4-SOP-CHEM-006

Analyte	LOQ	Limit	Result	Qualifier	Status	Analyte	LOQ	Limit	Result	Qualifier	Status
	ppm	ppm	ppm				ppm	ppm	ppm		
Abamectin	0.118	0.5	<LOQ		Pass	Hexythiazox	0.247	1.0	<LOQ		Pass
Acephate	0.099	0.4	<LOQ		Pass	Imazalil	0.049	0.2	<LOQ		Pass
Acequinocyl	0.494	2.0	<LOQ		Pass	Imidacloprid	0.099	0.4	<LOQ		Pass
Acetamiprid	0.049	0.2	<LOQ		Pass	Kresoxim-methyl	0.099	0.4	<LOQ		Pass
Aldicarb	0.099	0.4	<LOQ		Pass	Malathion	0.049	0.2	<LOQ		Pass
Azoxystrobin	0.049	0.2	<LOQ		Pass	Metalaxyl	0.049	0.2	<LOQ		Pass
Bifenazate	0.049	0.2	<LOQ		Pass	Methiocarb	0.049	0.2	<LOQ		Pass
Bifenthrin	0.049	0.2	<LOQ		Pass	Methomyl	0.099	0.4	<LOQ		Pass
Boscalid	0.099	0.4	<LOQ		Pass	Myclobutanil	0.049	0.2	<LOQ		Pass
Carbaryl	0.049	0.2	<LOQ		Pass	Naled	0.123	0.5	<LOQ		Pass
Carbofuran	0.049	0.2	<LOQ		Pass	Oxamyl	0.247	1.0	<LOQ		Pass
Chlorantraniliprole	0.049	0.2	<LOQ		Pass	Paclobutrazol	0.099	0.4	<LOQ	M1	Pass
Chlorfenapyr	0.494	1.0	<LOQ		Pass	Permethrins	0.049	0.2	<LOQ		Pass
Chlorpyrifos	0.049	0.2	<LOQ		Pass	Phosmet	0.049	0.2	<LOQ		Pass
Clofentezine	0.049	0.2	<LOQ		Pass	Piperonyl butoxide	0.494	2.0	<LOQ		Pass
Cyfluthrin	0.494	1.0	<LOQ		Pass	Prallethrin	0.049	0.2	<LOQ	M1	Pass
Cypermethrin	0.247	1.0	<LOQ	M1	Pass	Propiconazole	0.099	0.4	<LOQ	V1	Pass
Daminozide	0.494	1.0	<LOQ	M1, V1	Pass	Propoxur	0.049	0.2	<LOQ		Pass
Diazinon	0.049	0.2	<LOQ		Pass	Pyrethrins	0.159	1.0	<LOQ		Pass
Dichlorvos	0.049	0.1	<LOQ		Pass	Pyridaben	0.049	0.2	<LOQ		Pass
Dimethoate	0.049	0.2	<LOQ		Pass	Spinosad	0.049	0.2	<LOQ		Pass
Ethoprophos	0.049	0.2	<LOQ		Pass	Spiromesifen	0.049	0.2	<LOQ		Pass
Etofenprox	0.099	0.4	<LOQ		Pass	Spirotetramat	0.049	0.2	<LOQ	M1	Pass
Etoxazole	0.049	0.2	<LOQ		Pass	Spiroxamine	0.099	0.4	<LOQ		Pass
Fenoxycarb	0.049	0.2	<LOQ		Pass	Tebuconazole	0.099	0.4	<LOQ	M1, V1	Pass
Fenpyroximate	0.099	0.4	<LOQ		Pass	Thiacloprid	0.049	0.2	<LOQ		Pass
Fipronil	0.099	0.4	<LOQ		Pass	Thiamethoxam	0.049	0.2	<LOQ		Pass
Fonicamid	0.247	1.0	<LOQ		Pass	Trifloxystrobin	0.049	0.2	<LOQ		Pass
Fludioxonil	0.099	0.4	<LOQ		Pass						

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Metals by ICP-MS - Compliance

Pass

Date Analyzed: 09/15/2023 Analyst Initials: RSS SOP: C4-SOP-CHEM-008

Analyte	LOQ	Limit	Result	Qualifier	Status
	ppm	ppm	ppm		
Arsenic	0.099	0.4	<LOQ		Pass
Cadmium	0.099	0.4	<LOQ		Pass
Lead	0.394	1.0	<LOQ		Pass
Mercury	0.394	1.2	<LOQ		Pass



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Microbials

Pass

E. coli by 3M Petrifilm- Compliance

Date Analyzed: 09/15/2023 Analyst Initials: MRB SOP: C4-SOP-MICRO-010

Analyte	LOQ	Limit	Result	Qualifier Status
	CFU/g	CFU/g	CFU/g	
<i>E. coli</i>	10	100	<10	Pass

Aspergillus and Salmonella by qPCR - Compliance

Date Analyzed: 09/15/2023 Analyst Initials: MRB SOP: C4-SOP-MICRO-012

Analyte	Result	Qualifier Status
	in one gram	
<i>Salmonella spp.</i>	Not Detected	Pass
<i>Aspergillus</i>	Not Detected	Pass

Aspergillus includes species flavus, fumigatus, niger, and terreus. Salmonella and Aspergillus by Medicinal Genomics.

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Notes and Definitions

Item	Definition
D1	LOQ and sample results were adjusted to reflect sample dilution.
M1	Matrix Spike recovery was higher than control limit but recovery of the LCS was within control limits.
Q3	Testing result is for informational purposes only and cannot be used to satisfy dispensary testing requirements in R9-17-317.01(A) or labeling requirements in R9-17-317. Testing result is not accredited under ISO 17025.
V1	CCV recovery exceeded control limits but the sample analyte concentration was below maximum allowable concentrations in table 3.1
< LOQ	Results below the Limit of Quantification.
Limit	Maximum allowable concentration as defined by Table 3.1 in Arizona Administrative code (A.A.C.) Title 9, Chapter 17
CFU/g	Colony forming units per gram
ppm	Parts per million
ppb	Parts per billion
NT	Not Tested

Sum of Cannabinoids = THCA + d9-THC + CBDA + CBD + d8-THC + CBG + CBN + CBC

Total Cannabinoids = Total THC + Total CBD + d8-THC + CBG + CBN + CBC



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