

VVS Investments LLC, DBA Summus Grow  
1039 E Carefree Hwy  
Phoenix, AZ 85085  
16027414145  
Lic#: 00000131DCYO00924714

Sample: S409053-01  
CC ID#: 2409C4L0052.2786  
Lot#: N/A  
Batch#: GB092524DC  
Batch Size: N/A  
Manufacture Date: 09/25/2024  
Harvest Date: 05/31/2024

**FINAL**

Sample Name: GB092524DC - Grateful Breath - Rosin Decarb  
Strain Name: Grateful Breath  
Matrix: Concentrates\_Extracts  
Amount Received: 65.2581 g

Sample Collected: 09/25/2024 16:56  
Sample Received: 09/25/2024 16:56  
Report Created: 10/01/2024 17:43

**SAFETY**



<b>Microbials</b>  <b>PASS</b>	<b>Residual Solvents</b>  <b>PASS</b>	<b>Mycotoxins</b>  <b>PASS</b>	<b>Pesticides</b>  <b>PASS</b>
<b>Metals</b>  <b>PASS</b>			

**Terpenes**

**7.63%**  
**Total Terpenes (Q3)**

**Cannabinoid Results**

<b>79.3%</b> <b>Sum of Cannabinoids (Q3)</b>	<b>79.3%</b> <b>Total THC</b>	<b>ND%</b> <b>Total CBD</b>	<b>RATIO</b> <b>1 : 0</b> <b>THC : CBD</b>
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Total THC= THCA \* 0.877 + d9-THC  
Total CBD= CBDA \* 0.877 + CBD

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**Cannabinoids by HPLC-DAD - Compliance**

Date Analyzed: 09/30/2024 Analyst Initials: DRF SOP: SOP-CHEM-003

Analyte	LOQ	Result	Result	Qualifier
	%	%	mg/g	
THCA	1.58	<LOQ	< LOQ	
d9-THC	1.58	79.3	793	
d8-THC	1.58	<LOQ	< LOQ	
CBDA	1.58	<LOQ	< LOQ	
CBD	1.58	<LOQ	< LOQ	
CBG	1.58	<LOQ	< LOQ	
CBN	1.58	<LOQ	< LOQ	
CBC	1.58	<LOQ	< LOQ	
Sum of Cannabinoids	1.58	79.3	793	Q3
Total THC	1.58	79.3	793	
Total CBD	1.58	ND	ND	
Total Cannabinoids	1.58	79.3	793	Q3

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

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**Terpenes by GC-FID- Noncompliance**

Date Analyzed: 09/30/2024 Analyst Initials: DRF SOP: C4-SOP-CHEM-012

Analyte	LOQ	Result	Result	Qualifier
	%	%	mg/g	
d-Limonene	0.019	1.95	19.5	Q3
beta-Myrcene	0.019	1.90	19.0	Q3
beta-Caryophyllene	0.019	1.45	14.5	Q3
Linalool	0.019	0.605	6.05	Q3
alpha-Humulene	0.019	0.583	5.83	Q3
alpha-Pinene	0.019	0.412	4.12	Q3
Fenchol	0.019	0.226	2.26	Q3
Terpineol	0.019	0.136	1.36	Q3
alpha-Bisabolol	0.019	0.126	1.26	Q3
beta-Pinene	0.019	0.088	0.883	Q3
Camphene	0.025	0.080	0.798	Q3
Borneol	0.029	0.048	0.478	Q3
Terpinolene	0.019	0.026	0.259	Q3
Cedrene	0.019	<LOQ	< LOQ	Q3
Nerolidol	0.019	<LOQ	< LOQ	Q3
Cedrol	0.019	<LOQ	< LOQ	Q3
trans-B-Farnesene	0.019	<LOQ	< LOQ	Q3
Geranyl Acetate	0.019	<LOQ	< LOQ	Q3
Pulegone	0.019	<LOQ	< LOQ	Q3
Nerol	0.043	<LOQ	< LOQ	Q3
Citronellol	0.043	<LOQ	< LOQ	Q3
Fenchone	0.019	<LOQ	< LOQ	Q3
Sabinene Hydrate	0.019	<LOQ	< LOQ	Q3
alpha-Phelladrene	0.019	<LOQ	< LOQ	Q3
Sabinene	0.019	<LOQ	< LOQ	Q3
p-Cymene	0.019	<LOQ	< LOQ	Q3
gamma-Terpinene	0.019	<LOQ	< LOQ	Q3
Caryophyllene Oxide	0.019	<LOQ	< LOQ	Q3
Eucalyptol	0.019	<LOQ	< LOQ	Q3
Guaiol	0.019	<LOQ	< LOQ	Q3
Geraniol	0.055	<LOQ	< LOQ	Q3
Isopulegol	0.019	<LOQ	< LOQ	Q3
beta-Ocimene	0.019	<LOQ	< LOQ	Q3
alpha-Terpinene	0.019	<LOQ	< LOQ	Q3
delta-3-Carene	0.019	<LOQ	< LOQ	Q3
<b>Total Terpenes</b>		<b>7.630</b>	<b>76.30</b>	

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**Pesticides by LC/MS/MS - Compliance**

**Pass**

Date Analyzed: 09/27/2024 Analyst Initials: JCB SOP: SOP-CHEM-006

Analyte	LOQ	Limit	Result	Qualifier	Status	Analyte	LOQ	Limit	Result	Qualifier	Status
	ppm	ppm	ppm				ppm	ppm	ppm		
Abamectin	0.251	0.5	<LOQ	L1	Pass	Imazalil	0.101	0.2	<LOQ		Pass
Acephate	0.101	0.4	<LOQ		Pass	Imidacloprid	0.101	0.4	<LOQ		Pass
Acetamiprid	0.050	0.2	<LOQ		Pass	Kresoxim-methyl	0.101	0.4	<LOQ		Pass
Aldicarb	0.101	0.4	<LOQ		Pass	Malathion	0.050	0.2	<LOQ		Pass
Azoxystrobin	0.050	0.2	<LOQ		Pass	Metalaxyl	0.101	0.2	<LOQ		Pass
Bifenazate	0.050	0.2	<LOQ	V1	Pass	Methiocarb	0.050	0.2	<LOQ		Pass
Bifenthrin	0.050	0.2	<LOQ		Pass	Methomyl	0.101	0.4	<LOQ		Pass
Boscalid	0.101	0.4	<LOQ		Pass	Myclobutanil	0.050	0.2	<LOQ		Pass
Carbaryl	0.050	0.2	<LOQ		Pass	Naled	0.126	0.5	<LOQ		Pass
Carbofuran	0.050	0.2	<LOQ		Pass	Oxamyl	0.251	1.0	<LOQ		Pass
Chlorantraniliprole	0.050	0.2	<LOQ		Pass	Paclobutrazol	0.101	0.4	<LOQ		Pass
Chlorfenapyr	0.503	1.0	<LOQ		Pass	Permethrins	0.050	0.2	<LOQ		Pass
Chlorpyrifos	0.050	0.2	<LOQ		Pass	Phosmet	0.050	0.2	<LOQ		Pass
Clofentezine	0.050	0.2	<LOQ		Pass	Piperonyl butoxide	0.503	2.0	<LOQ		Pass
Cyfluthrin	0.503	1.0	<LOQ		Pass	Prallethrin	0.101	0.2	<LOQ		Pass
Cypermethrin	0.251	1.0	<LOQ		Pass	Propiconazole	0.101	0.4	<LOQ		Pass
Daminozide	0.503	1.0	<LOQ	V1	Pass	Propoxur	0.050	0.2	<LOQ		Pass
Diazinon	0.050	0.2	<LOQ		Pass	Pyrethrins	0.280	1.0	<LOQ		Pass
Dichlorvos	0.050	0.1	<LOQ		Pass	Pyridaben	0.050	0.2	<LOQ		Pass
Dimethoate	0.050	0.2	<LOQ		Pass	Spinosad	0.050	0.2	<LOQ		Pass
Ethoprophos	0.050	0.2	<LOQ		Pass	Spiromesifen	0.050	0.2	<LOQ		Pass
Etofenprox	0.101	0.4	<LOQ		Pass	Spirotetramat	0.050	0.2	<LOQ		Pass
Etoxazole	0.050	0.2	<LOQ		Pass	Spiroxamine	0.101	0.4	<LOQ		Pass
Fenoxycarb	0.050	0.2	<LOQ	L1, V1	Pass	Tebuconazole	0.101	0.4	<LOQ		Pass
Fenpyroximate	0.101	0.4	<LOQ		Pass	Thiacloprid	0.050	0.2	<LOQ		Pass
Fipronil	0.101	0.4	<LOQ		Pass	Thiamethoxam	0.050	0.2	<LOQ		Pass
Fonicamid	0.251	1.0	<LOQ		Pass	Trifloxystrobin	0.050	0.2	<LOQ		Pass
Fludioxonil	0.101	0.4	<LOQ		Pass						
Hexythiazox	0.251	1.0	<LOQ		Pass						

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**Metals by ICP-MS - Compliance**

**Pass**

Date Analyzed: 09/30/2024 Analyst Initials: JEK SOP: C4-SOP-CHEM-008

Analyte	LOQ	Limit	Result	Qualifier	Status
	ppm	ppm	ppm		
Arsenic	0.100	0.4	<LOQ		Pass
Cadmium	0.100	0.4	<LOQ		Pass
Lead	0.399	1.0	<LOQ		Pass
Mercury	0.040	0.2	<LOQ		Pass

**Mycotoxins by ELISA- Compliance**

**Pass**

Date Analyzed: 10/01/2024 Analyst Initials: DHV SOP: SOP-MICRO-014

Analyte	LOQ	Limit	Result	Qualifier	Status
	ppb	ppb	ppb		
Aflatoxins Total	2.00	20	<LOQ		Pass
Ochratoxin A	4.00	20	<LOQ		Pass

Total Aflatoxins includes Aflatoxins B1, B2, G1, and G2.

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**Microbials**

**Pass**

**E. coli by 3M Petrifilm- Compliance**

Date Analyzed: 10/01/2024 Analyst Initials: DHV SOP: 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: 10/01/2024 Analyst Initials: DHV SOP: SOP-MICRO-013

Analyte	Result	Qualifier	Status
	in one gram		
<i>Salmonella spp.</i>	Not Detected		Pass
<i>Aspergillus flavus,</i> <i>Aspergillus fumigatus,</i> <i>Aspergillus niger, or</i> <i>Aspergillus terreus</i>	Not Detected		Pass

Salmonella and Aspergillus by Medicinal Genomics.

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**Residual Solvents by Headspace GC/MS - Compliance**

**Pass**

Date Analyzed: 09/27/2024 Analyst Initials: HSP SOP: SOP-CHEM-005

Analyte	LOD	LOQ	Limit	Result	Qualifier	Status	Analyte	LOD	LOQ	Limit	Result	Qualifier	Status
	ppm	ppm		ppm				ppm	ppm				
Acetone		123.2	1000	<LOQ		Pass	2,2-Dimethylbutane		39.41		<LOQ		
Acetonitrile		49.26	410	<LOQ		Pass	2-methylpentane/ 2,3-dimethylbutane		78.82		<LOQ		
Benzene		0.985	2	<LOQ		Pass	2-Propanol (IPA)	615.8	5000		<LOQ		Pass
Butanes		615.8	5000	<LOQ		Pass	Isopropyl acetate	615.8	5000		<LOQ		Pass
<i>n</i> -Butane		615.8		<LOQ			Methanol	369.5	3000		<LOQ		Pass
<i>iso</i> -Butane		615.8		<LOQ			Pentanes	615.8	5000		<LOQ		Pass
Chloroform		14.78	60	<LOQ		Pass	<i>n</i> -Pentane		615.8		<LOQ		
Dichloromethane		73.89	600	<LOQ		Pass	<i>iso</i> -pentane		615.8		<LOQ		
Ethanol		615.8	5000	<LOQ		Pass	<i>neo</i> -Pentane		615.8		<LOQ		L1
Ethyl acetate		615.8	5000	<LOQ		Pass	Toluene	113.3	890		<LOQ		Pass
Diethyl Ether		615.8	5000	<LOQ		Pass	Xylenes	270.9	2170		<LOQ		Pass
n-Heptane		615.8	5000	<LOQ		Pass	<i>m/p</i> -Xylene		541.9		<LOQ		
Hexanes		39.41	290	<LOQ		Pass	<i>o</i> -Xylene		270.9		<LOQ		
<i>n</i> -Hexane		39.41		<LOQ			Ethyl benzene		270.9		<LOQ		
3-Methylpentane		39.41		<LOQ									

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**Notes and Definitions**

Item	Definition
L1	The percent recovery of the LCS was above the control limit for the test but analyte was not detected above the Action Limit in Table 3.1.
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	The recovery from initial or continuing calibration verification standards is greater than the acceptance limits, but the sample's target analytes were not detected above the maximum allowable concentrations in Table 3.1 for the analytes in the sample.
< LOQ	Results below the Limit of Quantification.
ND	Not Detected
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	

**CASE NARRATIVE**

**ARIZONA DEPARTMENT OF HEALTH SERVICES' WARNING:**  
Marijuana use can be addictive and can impair an individual's ability to drive a motor vehicle or operate heavy machinery. Marijuana smoke contains carcinogens and can lead to an increased risk for cancer, tachycardia, hypertension, heart attack, and lung infection. Marijuana use may affect the health of a pregnant woman and the unborn child. KEEP OUT OF REACH OF CHILDREN. Using Marijuana during pregnancy could cause birth defects or other health issues to your unborn child.