



Sample ID: VT9142

Sample Name: Clover Hill Grimm Glue Vape Blend Sample Lot: MANU000524TCH66IV1 Sample Matrix: Solvent Extraction Concentrates Date Received: 4/11/2024 Date Reported: 4/19/2024 Date Tested: 4/15/2024

Total Terpenes (%) : 2.5458

Dominant Terpenes (%)					
beta-caryophyllene	0.7063				
Limonene	0.5419				
Myrcene	0.4773				
alpha-Humulene	0.2352				
Linalool	0.1874				

Crover Hill 2020415-81-82 Grimm Glue Vape Brend Lot: MANU0005-24-T-CH-GG1-V1

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Standard terpene analysis utilizing Gas Chromatography - Mass Spectrometry (GC-MS; SOP-069-0A) | Test ID: #27094

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND	0.000002	0.002
alpha-Bisabolol	0.0354	0.354	0.000003	0.002
alpha-Humulene	0.2352	2.352	0.000002	0.002
alpha-Pinene	0.0581	0.581	0.000001	0.002
alpha-Terpinene	ND	ND	0.000001	0.002
alpha-Terpinolene	< LOQ	< LOQ	0.000004	0.002
beta-caryophyllene	0.7063	7.063	0.000004	0.002
beta-Pinene	0.077	0.77	0.000002	0.002
Camphene	0.044	0.44	0.000001	0.002
Caryophyllene Oxide	0.0566	0.566	0.000011	0.002
Eucalyptol	ND	ND	0.000002	0.002
gamma-Terpinene	ND	ND	0.000002	0.002
Geraniol	ND	ND	0.000008	0.002
Guaiol	ND	ND	0.000007	0.002
Isopulegol	ND	ND	0.000005	0.002
Isopropyl Toluene	ND	ND	0.000003	0.002
Limonene	0.5419	5.419	0.000002	0.002
Linalool	0.1874	1.874	0.000003	0.002
Nerolidol	0.0705	0.705	0.000007	0.002
Myrcene	0.4773	4.773	0.000003	0.002
Ocimene	0.0561	0.561	0.000002	0.002
Total Terpenes	2.5458	25.458		

Callie Chapman Lab Director 4/19/2024

In performing the services, Onward Analytics, ("OA") shall exercise a degree of skill and care ordinarily exercised by a reasonably prudent laboratory professional under similar circumstances. Except as set forth in the preceding sentence, client acknowledges and agrees that: (a) the services may require OA to make judgements based upon limited data rather than upon scientific certainties; (b) OA's approach, recommendations, and associated cost estimates, if any, are based on industry practices and averages; (c) OA renders its opinions with respect to observations made and data available at the time of testing; (d) ultimate outcomes could be inconsistent with OA's conclusions, results and projections; and (e) there may be additional reports relating to the site (whether prepared by OA or other parties), and reliance upon any OA report without reference to any such other reports is done at client's sole risk.



Certificate of Analysis



Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT9142

Sample Name: Clover Hill Grimm Glue Vape Blend Sample Lot: MANU000524TCH66IV1 Sample Matrix: Solvent Extraction Concentrates Date Received: 4/11/2024 Date Reported: 4/19/2024 Date Tested: 4/15/2024



Total Cannabinoids							
% mg/g							
Total THC:	77.023	770.233					
Total CBD:							
Total Cannabinoids: 81.358 813.577							

Total theoretical CBD % = (CBD%) + (CBDA% * 0.877) Total theoretical THC % = (delta-9-THC%) + (THCA% * 0.877)

Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-0A) | Test ID: #27090

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	0.6836	6.836	0.0003	0.0040
CBCA	ND	ND	0.0002	0.0040
CBD	ND	ND	0.0008	0.0040
CBDA	ND	ND	0.0002	0.0040
CBDV	ND	ND	0.0008	0.0040
CBDVA	ND	ND	0.0001	0.0040
CBG	3.6508	36.508	0.0009	0.0040
CBGA	ND	ND	0.0001	0.0040
CBN	< LOQ	< LOQ	0.0004	0.0040
CBNA	ND	ND	0.0002	0.0040
D8 THC	ND	ND	0.0012	0.0040
D9 THC	77.0233	770.233	0.0016	0.0049
D10 THC	ND	ND	0.0004	0.0040
THCA	< LOQ	< LOQ	0.0002	0.0040
THCV	< LOQ	< LOQ	0.0016	0.0049
THCVA	ND	ND	0.0002	0.0040

Callie Chapman Lab Director

4/19/2024



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testing; (d) ultimate outcomes could be inconsistent with OA's conclusions, results and projections; and (e) there may be



Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT7325

Sample Name: GRIMM GLUE CO2 OIL (CLOVER HILL) Sample Lot: MANU0005-24-T-CH-GRIMMG1-C1 Sample Matrix: Solvent Extraction Concentrates Date Received: 2/7/2024 Date Reported: 2/14/2024 Date Tested: 2/12/2024



Heavy Met	als	PASS						
Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-0A) - Limit units: ppm Test ID: #2								
Analyte	Pass/Fail	Result (ppm)	Limit (ppm)	LOD (ppm)	LOQ (ppm)			
Arsenic	PASS	< LOQ	1.500	0.0000260	0.00050			
Cadmium	PASS	< LOQ	0.500	0.000004	0.00050			
Lead	PASS	< LOQ	1.000	0.0000190	0.00050			
Mercury	PASS	< LOQ	1.500	0.000039	0.00050			

Callie Chapman Lab Director 2/14/2024





Pesticides

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Certificate of Analysis

Client Name: Kria Commons
License Number: MANU-0005
Sample ID: VT7325
Sample Name: GRIMM GLUE CO2 OIL (CLOVER HILL)
Sample Lot: MANU0005-24-T-CH-GRIMMG1-C1
Sample Matrix: Solvent Extraction Concentrates
Date Received: 2/7/2024
Date Reported: 2/14/2024
Date Tested: 2/9/2024



Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - Limit units: ppm | Test ID: #21590

Pass

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Abamectin B1a	Pass	ND	0.10000	0.00156	0.01560
Abamectin B1b	Pass	ND	0.10000	0.00011	0.00110
Acephate	Pass	ND	0.10000	0.00168	0.01680
Acequinocyl	Pass	ND	0.10000	0.00167	0.01670
Azoxystrobin	Pass	ND	0.10000	0.00168	0.01680
Bifenazate	Pass	ND	0.10000	0.00167	0.01670
Bifenthrin	Pass	ND	3.00000	0.00167	0.01670
Carbaryl	Pass	ND	0.50000	0.00167	0.01670
Chlorpyrifos	Pass	ND	0.04000	0.00167	0.01670
Cypermethrin	Pass	ND	1.00000	0.00168	0.01680
Etoxazole	Pass	ND	0.10000	0.00168	0.01680
Imazalil	Pass	ND	0.04000	0.00167	0.01670
Imidacloprid	Pass	ND	5.00000	0.00166	0.01660
Myclobutanil	Pass	ND	0.10000	0.00167	0.01670
Spinosyn A	Pass	ND	0.10000	0.00120	0.01199
Spinosyn D	Pass	ND	0.10000	0.00042	0.00415
Pyrethrins	Pass	ND	0.50000	0.00022 0.00498 *	0.00072 0.00015 *

* Pyrethrins action limit represents sum of isomers I & II

Callie Chapman Lab Director 2/14/2024





Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT7325

Sample Name: GRIMM GLUE CO2 OIL (CLOVER HILL) Sample Lot: MANU0005-24-T-CH-GRIMMG1-C1 Sample Matrix: Solvent Extraction Concentrates Date Received: 2/7/2024 Date Reported: 2/14/2024 Date Tested: 2/12/2024



Total Cannabinoids							
% mg/g							
Total THC:	75.251	752.510					
Total CBD:							
Total Cannabinoids:	79.614	796.136					

Total theoretical CBD % = (CBD%) + (CBDA% * 0.877) Total theoretical THC % = (delta-9-THC%) + (THCA% * 0.877)

Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-0A) | Test ID: #21589

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	0.8616	8.616	0.0003	0.0040
CBCA	ND	ND	0.0002	0.0040
CBD	< LOQ	< LOQ	0.0008	0.0040
CBDA	ND	ND	0.0002	0.0040
CBDV	ND	ND	0.0008	0.0040
CBDVA	ND	ND	0.0001	0.0040
CBG	2.4935	24.935	0.0009	0.0040
CBGA	ND	ND	0.0001	0.0040
CBN	0.6485	6.485	0.0004	0.0040
CBNA	ND	ND	0.0002	0.0040
D8 THC	ND	ND	0.0012	0.0040
D9 THC	72.6909	726.909	0.0016	0.0049
D10 THC	ND	ND	0.0004	0.0040
ГНСА	2.9191	29.191	0.0002	0.0040
THCV	< LOQ	< LOQ	0.0016	0.0049
THCVA	ND	ND	0.0002	0.0040

Callie Chapman Lab Director 2/14/2024



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Certificate of Analysis

License Number: MANU-0005 Sample ID: VT7325 Sample Name: GRIMM GLUE CO2 OIL (CLOVER HILL) Sample Lot: MANU0005-24-T-CH-GRIMMG1-C1 Sample Matrix: Solvent Extraction Concentrates Date Received: 2/7/2024 Date Reported: 2/14/2024 Date Tested: 2/9/2024		Client Name: Kria Commons
Sample Name: GRIMM GLUE CO2 OIL (CLOVER HILL) Sample Lot: MANU0005-24-T-CH-GRIMMG1-C1 Sample Matrix: Solvent Extraction Concentrates Date Received: 2/7/2024 Date Reported: 2/14/2024		License Number: MANU-0005
Sample Lot: MANU0005-24-T-CH-GRIMMG1-C1 Sample Matrix: Solvent Extraction Concentrates Date Received: 2/7/2024 Date Reported: 2/14/2024	I	Sample ID: VT7325
Sample Matrix: Solvent Extraction Concentrates Date Received: 2/7/2024 Date Reported: 2/14/2024	ľ	Sample Name: GRIMM GLUE CO2 OIL (CLOVER HILL)
Date Received: 2/7/2024 Date Reported: 2/14/2024		Sample Lot: MANU0005-24-T-CH-GRIMMG1-C1
Date Reported: 2/14/2024		Sample Matrix: Solvent Extraction Concentrates
• • • •		Date Received: 2/7/2024
Date Tested: 2/9/2024		Date Reported: 2/14/2024
Date rested. 2/ 5/2024		Date Tested: 2/9/2024



Residual Solvents

Pass

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010-0A) - Limit units: μg/g | Test ID: #21604

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Acetone	Pass	< LOQ	5000.000	4.730	14.200
Acetonitrile	Pass	< LOQ	410.000	0.480	1.450
Benzene	Pass	< LOQ	2.000	0.020	0.060
Chloroform	Pass	< LOQ	60.000	0.070	0.210
Ethanol	Pass	< LOQ	5000.000	6.010	18.040
Heptanes (total)	Pass	< LOQ	5000.000	5.950	17.840
Hexanes (total)	Pass	< LOQ	0	0.350	1.040
Isopropyl Alcohol	Pass	< LOQ	5000.000	5.910	17.730
Methanol	Pass	< LOQ	3000.000	3.540	10.610
Methylene Chloride	Pass	< LOQ	600.000	6.400	19.190
Toluene	Pass	< LOQ	890.000	1.050	3.160
Xylenes (total)	Pass	< LOQ	2170.000	19.426 14.858 *	58.868 45.024 *
Additional Solvent Analytes	;				
Propane	Pass	< LOQ	5000.000	5.420	16.260
2-Methylpropane	Pass	< LOQ	5000.000	5.420	16.270
2,2-Dimethylbutane	Pass	< LOQ	5000.000	0.340	1.020
2,3-Dimethylbutane	Pass	< LOQ	5000.000	0.340	1.030
n-Butane	Pass	< LOQ	0	5.390	16.160
2-Methylpentane	Pass	< LOQ	5000.000	0.340	1.030
3-Methylpentane	Pass	< LOQ	5000.000	0.680	2.050
Isopentane	Pass	< LOQ	5000.000	5.890	17.670
n-Pentane	Pass	< LOQ	5000.000	5.900	17.700
Neopentane	Pass	< LOQ	5000.000	11.870	35.620

* Xylenes action limit represents sum of m,p-Xylene and o-Xylene

Callie Chapman Lab Director 2/14/2024





Certificate of Analysis

Client Name: Kria Commons
License Number: MANU-0005

Sample ID: VT7205

Sample Name: GRIMM GLUE CO2 TERPS (CLOVER HILL) Sample Lot: MANU0005-24-T-CH-GRIMMG1-T1 Sample Matrix: Solvent Extraction Concentrates Date Received: 2/2/2024 Date Reported: 2/9/2024 Date Tested: 2/7/2024



Heavy Metals			PASS				
Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-0A) - Limit units: ppm Test ID: #21207							
Analyte	Pass/Fail	Result (ppm)	Limit (ppm)	LOD (ppm)	LOQ (ppm)		
Arsenic	PASS	< LOQ	1.500	0.0000260	0.00050		
Cadmium	PASS	< LOQ	0.500	0.000004	0.00050		
Lead	PASS	< LOQ	1.000	0.0000190	0.00050		
Mercury	PASS	< LOQ	1.500	0.000039	0.00050		



Pesticides

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Certificate of Analysis

	Client Name: Kria Commons					
	License Number: MANU-0005					
I	Sample ID: VT7205					
	Sample Name: GRIMM GLUE CO2 TERPS (CLOVER HILL)					
	Sample Lot: MANU0005-24-T-CH-GRIMMG1-T1					
	Sample Matrix: Solvent Extraction Concentrates					
	Date Received: 2/2/2024					
	Date Reported: 2/9/2024					
	Date Tested: 2/6/2024					



Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - Limit units: ppm | Test ID: #21206

Pass

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Abamectin B1a	Pass	ND	0.10000	0.00156	0.01560
Abamectin B1b	Pass	ND	0.10000	0.00011	0.00110
Acephate	Pass	ND	0.10000	0.00168	0.01680
Acequinocyl	Pass	ND	0.10000	0.00167	0.01670
Azoxystrobin	Pass	ND	0.10000	0.00168	0.01680
Bifenazate	Pass	ND	0.10000	0.00167	0.01670
Bifenthrin	Pass	ND	3.00000	0.00167	0.01670
Carbaryl	Pass	ND	0.50000	0.00167	0.01670
Chlorpyrifos	Pass	ND	0.04000	0.00167	0.01670
Cypermethrin	Pass	ND	1.00000	0.00168	0.01680
Etoxazole	Pass	ND	0.10000	0.00168	0.01680
Imazalil	Pass	ND	0.04000	0.00167	0.01670
Imidacloprid	Pass	ND	5.00000	0.00166	0.01660
Myclobutanil	Pass	ND	0.10000	0.00167	0.01670
Spinosyn A	Pass	ND	0.10000	0.00120	0.01199
Spinosyn D	Pass	ND	0.10000	0.00042	0.00415
Pyrethrins	Pass	ND	0.50000	0.00022 0.00498 *	0.00072 0.00015 *

* Pyrethrins action limit represents sum of isomers I & II

Callie Chapman Lab Director 2/9/2024





Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT7205

Sample Name: GRIMM GLUE CO2 TERPS (CLOVER HILL) Sample Lot: MANU0005-24-T-CH-GRIMMG1-T1 Sample Matrix: Solvent Extraction Concentrates Date Received: 2/2/2024 Date Reported: 2/9/2024 Date Tested: 2/6/2024



Total Cannabinoids						
	%	mg/g				
Total THC:	4.710	47.098				
Total CBD:	0.440	4.399				
Total Cannabinoids:	6.330	63.299				

Total theoretical CBD % = (CBD%) + (CBDA% * 0.877) Total theoretical THC % = (delta-9-THC%) + (THCA% * 0.877)

Potency

Standard potency analysis utilizing High Performance Liquid Chromatography (HPLC; SOP-024-0A) | Test ID: #21204

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	0.0512	0.512	0.0003	0.0040
CBCA	0.084	0.84	0.0002	0.0040
CBD	0.4399	4.399	0.0008	0.0040
CBDA	< LOQ	< LOQ	0.0002	0.0040
CBDV	< LOQ	< LOQ	0.0008	0.0040
CBDVA	ND	ND	0.0001	0.0040
CBG	0.5044	5.044	0.0009	0.0040
CBGA	0.1551	1.551	0.0001	0.0040
CBN	< LOQ	< LOQ	0.0004	0.0040
BNA	ND	ND	0.0002	0.0040
8 THC	ND	ND	0.0012	0.0040
09 THC	1.9614	19.614	0.0016	0.0049
010 THC	ND	ND	0.0004	0.0040
THCA	3.1339	31.339	0.0002	0.0040
HCV	ND	ND	0.0016	0.0049
THCVA	< LOQ	< LOQ	0.0002	0.0040



Callie Chapman Lab Director 2/9/2024



Certificate of Analysis

	Client Name: Kria Commons					
	License Number: MANU-0005					
I	Sample ID: VT7205					
	Sample Name: GRIMM GLUE CO2 TERPS (CLOVER HILL)					
	Sample Lot: MANU0005-24-T-CH-GRIMMG1-T1					
	Sample Matrix: Solvent Extraction Concentrates					
	Date Received: 2/2/2024					
	Date Reported: 2/9/2024					
	Date Tested: 2/8/2024					



Residual Solvents

Pass

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography – Mass Spectrometry (HS-GC-MS; SOP-010-0A) - Limit units: μg/g | Test ID: #21205

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Acetone	Pass	< LOQ	5000.000	4.730	14.200
Acetonitrile	Pass	< LOQ	410.000	0.480	1.450
Benzene	Pass	< LOQ	2.000	0.020	0.060
Chloroform	Pass	< LOQ	60.000	0.070	0.210
Ethanol	Pass	< LOQ	5000.000	6.010	18.040
Heptanes (total)	Pass	< LOQ	5000.000	5.950	17.840
Hexanes (total)	Pass	< LOQ	0	0.350	1.040
Isopropyl Alcohol	Pass	< LOQ	5000.000	5.910	17.730
Methanol	Pass	< LOQ	3000.000	3.540	10.610
Methylene Chloride	Pass	< LOQ	600.000	6.400	19.190
Toluene	Pass	< LOQ	890.000	1.050	3.160
Xylenes (total)	Pass	< LOQ	2170.000	19.426 14.858 *	58.868 45.024 *
Additional Solvent Analytes					
Propane	Pass	< LOQ	5000.000	5.420	16.260
2-Methylpropane	Pass	< LOQ	5000.000	5.420	16.270
2,2-Dimethylbutane	Pass	< LOQ	5000.000	0.340	1.020
2,3-Dimethylbutane	Pass	< LOQ	5000.000	0.340	1.030
n-Butane	Pass	< LOQ	0	5.390	16.160
2-Methylpentane	Pass	< LOQ	5000.000	0.340	1.030
3-Methylpentane	Pass	< LOQ	5000.000	0.680	2.050
Isopentane	Pass	< LOQ	5000.000	5.890	17.670
n-Pentane	Pass	< LOQ	5000.000	5.900	17.700
Neopentane	Pass	< LOQ	5000.000	11.870	35.620

* Xylenes action limit represents sum of m,p-Xylene and o-Xylene

Callie Chapman Lab Director 2/9/2024

