

Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT9616

Sample Name: Full Circle Farm Royal Highness Vape

Sample Lot: MANU0005-24-T-FCF-RH1-V1 Sample Matrix: Solvent Extraction Concentrates

Date Received: 5/1/2024

Date Reported: 5/7/2024 Date Tested: 5/3/2024





Total Cannabinoids				
	%	mg/g		
Total THC:	81.770	817.699		
Total CBD:				
Total Cannabinoids:	85.471	854.711		

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: #28570

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	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	3.7012	37.012	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	< LOQ	< LOQ	0.0012	0.0040
D9 THC	81.7699	817.699	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







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Date Received: 5/1/2024 Date Reported: 5/7/2024 Date Tested: 5/3/2024



Total Terpenes (%): 2.8115

Dominant Terpenes (%)			
Myrcene	0.9276		
beta-caryophyllene	0.5884		
Limonene	0.5397		
alpha-Pinene	0.1634		
alpha-Humulene	0.1513		

Terpenes

Standard terpene analysis utilizing Gas Chromatography - Mass Spectrometry (GC-MS; SOP-069-0A) | Test ID: #28571

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)	
3-Carene	ND	ND	0.000002	0.002	
alpha-Bisabolol	< LOQ	< LOQ	0.000003	0.002	
alpha-Humulene	0.1513	1.513	0.000002	0.002	
alpha-Pinene	0.1634	1.634	0.00001	0.002	
alpha-Terpinene	< LOQ	< LOQ	0.000001	0.002	
alpha-Terpinolene	0.0533	0.533	0.000004	0.002	
beta-caryophyllene	0.5884	5.884	0.000004	0.002	
beta-Pinene	0.1059	1.059	0.000002	0.002	
Camphene	0.0434	0.434	0.000001	0.002	
Caryophyllene Oxide	0.0531	0.531	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	0.5397	5.397	0.000002	0.002	
Linalool	0.0751	0.751	0.000003	0.002	
Nerolidol	ND	ND	0.000007	0.002	
Myrcene	0.9276	9.276	0.000003	0.002	
Ocimene	0.1103	1.103	0.000002	0.002	
Total Terpenes	2.8115	28.115			





Page 1 of 1



Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT8699

Sample Name: THC Distillate (FCF)

Sample Lot: MANU0005-24-T-FCF-THCMIX1-D1

Sample Matrix: Solvent Extraction Concentrates

Date Received: 3/28/2024 Date Reported: 4/3/2024

Date Tested: 4/1/2024



Heavy Metals

PASS

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-0A) - Limit units: ppm | Test ID: #25760

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







Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT8699

Sample Name: THC Distillate (FCF)

Sample Lot: MANU0005-24-T-FCF-THCMIX1-D1

Sample Matrix: Solvent Extraction Concentrates

Date Received: 3/28/2024

Date Reported: 4/3/2024

Date Tested: 4/1/2024



Pesticides Pass

Residual pesticide analysis utilizing Liquid Chromatography - Mass Spectrometry (LC-MSMS; SOP-070-0A) - Limit units: ppm | Test |D:

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
lmazalil	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







Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT8699

Sample Name: THC Distillate (FCF)

Sample Lot: MANU0005-24-T-FCF-THCMIX1-D1

Sample Matrix: Solvent Extraction Concentrates

Date Received: 3/28/2024 Date Reported: 4/3/2024

Date Tested: 4/1/2024



Total Cannabinoids				
	%	mg/g		
Total THC:	84.113	841.128		
Total CBD:				
Total Cannabinoids:	88.561	885.609		

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: #25745

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	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	3.9357	39.357	0.0009	0.0040
CBGA	ND	ND	0.0001	0.0040
CBN	0.5124	5.124	0.0004	0.0040
CBNA	ND	ND	0.0002	0.0040
D8 THC	< LOQ	< LOQ	0.0012	0.0040
D9 THC	84.1128	841.128	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







Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT8699

Sample Name: THC Distillate (FCF)

Sample Lot: MANU0005-24-T-FCF-THCMIX1-D1

Sample Matrix: Solvent Extraction Concentrates

Date Received: 3/28/2024 Date Reported: 4/3/2024

Date Tested: 4/1/2024



Residual Solvents

Pass

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography - Mass Spectrometry (HS-GC-MS; SOP-010-OA) - Limit units: µg/g | Test ID: #25758

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







Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT6092

Sample Name: Royal Highness Co2 Terps Sample Lot: MANU0005-23-T-FCF-RH1-T1-2 Sample Matrix: Solvent Extraction Concentrates Date Received: 12/20/2023

Date Reported: 1/2/2024 Date Tested: 12/21/2023



Heavy Metals

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-0A) - Limit units: ppm | Test ID: #17582

PASS

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







Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT6092

Sample Name: Royal Highness Co2 Terps Sample Lot: MANU0005-23-T-FCF-RH1-T1-2 Sample Matrix: Solvent Extraction Concentrates

Date Received: 12/20/2023 Date Reported: 1/2/2024 Date Tested: 12/29/2023



Pesticides Pass

Residual pesticide analysis utilizing Liquid Chromatography - Mass Spectrometry (LC-MSMS; SOP-070-0A) - Limit units: ppm | Test |D:

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







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Sample ID: VT6092

Sample Name: Royal Highness Co2 Terps Sample Lot: MANU0005-23-T-FCF-RH1-T1-2 Sample Matrix: Solvent Extraction Concentrates Date Received: 12/20/2023

Date Reported: 1/2/2024 Date Tested: 12/29/2023



Total Cannabinoids				
	%	mg/g		
Total THC:	3.074	30.739		
Total CBD:	0.195	1.952		
Total Cannabinoids:	3.718	37.182		

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: #17579

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	< LOQ	< LOQ	0.0003	0.0040
CBCA	0.0967	0.967	0.0002	0.0040
CBD	0.1952	1.952	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	0.141	1.41	0.0009	0.0040
CBGA	< LOQ	< LOQ	0.0001	0.0040
CBN	ND	ND	0.0004	0.0040
CBNA	ND	ND	0.0002	0.0040
D8 THC	ND	ND	0.0012	0.0040
D9 THC	1.5662	15.662	0.0016	0.0049
D10 THC	ND	ND	0.0004	0.0040
THCA	1.7191	17.191	0.0002	0.0040
THCV	ND	ND	0.0016	0.0049
THCVA	ND	ND	0.0002	0.0040







Certificate of Analysis

Client Name: Kria Commons License Number: MANU-0005

Sample ID: VT6092

Sample Name: Royal Highness Co2 Terps Sample Lot: MANU0005-23-T-FCF-RH1-T1-2 Sample Matrix: Solvent Extraction Concentrates

Date Received: 12/20/2023 Date Reported: 1/2/2024 **Date Tested: 1/2/2024**



Residual Solvents

Pass

Residual solvents and processing chemicals analysis utilizing Headspace Gas Chromatography - Mass Spectrometry (HS-GC-MS; SOP-010-OA) - Limit units: μg/g | Test ID: #17580

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



