



261 Mountain View Dr
Colchester, VT 05446
License #: TLAB0030
802-767-7256
info@onwardanalytics.biz

Certificate of Analysis



Client Name: Roundhouse Hash Co.

License Number: MANU0088



Sample ID: VT23586

Sample Name: FCF | Starlink Distillate

Sample Lot: manu0088-fcf-sl-82025

Sample Matrix: Solvent Extraction Concentrates

Date Received: 8/21/2025

Date Reported: 8/27/2025

Date Tested: 8/22/2025



Total Cannabinoids

	%	mg/g
Total THC:	78.461	784.610
Total CBD:	0.611	6.111
Total Cannabinoids:	89.124	891.242

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-OA) | Test ID: #77230

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	0.0003	0.0040
CBCA	ND	ND	0.0002	0.0040
CBD	0.6111	6.111	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	3.5169	35.169	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	78.461	784.61	0.0016	0.0049
D10 THC	ND	ND	0.0004	0.0040
THCA	ND	ND	0.0002	0.0040
THCV	6.5352	65.352	0.0016	0.0049
THCVA	ND	ND	0.0002	0.0040

Callie Chapman

Callie Chapman

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Date Received: 8/21/2025

Date Reported: 8/27/2025

Date Tested: 8/22/2025



Total Terpenes (%) : 1.5268

Dominant Terpenes (%)

beta-caryophyllene	0.6034
alpha-Humulene	0.2691
alpha-Bisabolol	0.1734
Limonene	0.1501
Myrcene	0.0725

Terpenes

Standard terpene analysis utilizing Gas Chromatography – Mass Spectrometry (GC-MS; SOP-069-OA) | Test ID: #77231

Analyte	Result (%)	Result (mg/g)	LOD (mg/g)	LOQ (mg/g)
3-Carene	ND	ND	0.000002	0.001
alpha-Bisabolol	0.1734	1.734	0.000003	0.001
alpha-Humulene	0.2691	2.691	0.000002	0.001
alpha-Pinene	0.0195	0.195	0.000001	0.001
alpha-Terpinene	ND	ND	0.000001	0.001
alpha-Terpinolene	ND	ND	0.000004	0.001
beta-caryophyllene	0.6034	6.034	0.000004	0.001
beta-Pinene	0.034	0.34	0.000002	0.001
Camphene	0.0097	0.097	0.000001	0.001
Caryophyllene Oxide	0.0523	0.523	0.000011	0.001
Eucalyptol	ND	ND	0.000002	0.001
gamma-Terpinene	ND	ND	0.000002	0.001
Geraniol	ND	ND	0.000008	0.003
Guaiol	0.0393	0.393	0.000007	0.001
Isopulegol	ND	ND	0.000005	0.001
Isopropyl Toluene	ND	ND	0.000003	0.001
Limonene	0.1501	1.501	0.000002	0.001
Linalool	0.0443	0.443	0.000003	0.001
Nerolidol	0.0592	0.592	0.000007	0.001
Myrcene	0.0725	0.725	0.000003	0.001
Ocimene	ND	ND	0.000002	0.001
Total Terpenes	1.5268	15.268		

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Client Name: Kria Commons

License Number: MANU-0005



Sample ID: VT22400

Sample Name: THC Distillate

Sample Lot: MANU0005-25-FCF-XXXX-0710

Sample Matrix: Solvent Extraction Concentrates

Date Received: 7/10/2025

Date Reported: 7/16/2025

Date Tested: 7/11/2025



Heavy Metals

PASS

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-OA) - **Limit units: ppm** | Test ID: #73266

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	0.0000004	0.00050
Lead	PASS	< LOQ	1.000	0.0000190	0.00050
Mercury	PASS	< LOQ	1.500	0.0000039	0.00050

ONWARD
ANALYTICS

Callie Chapman

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Client Name: Kria Commons

License Number: MANU-0005



Sample ID: VT22400

Sample Name: THC Distillate

Sample Lot: MANU0005-25-FCF-XXXX-0710

Sample Matrix: Solvent Extraction Concentrates

Date Received: 7/10/2025

Date Reported: 7/16/2025

Date Tested: 7/14/2025



Pesticides

Pass

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - Limit units: ppm | Test ID: #73265

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Abamectin B1a	Pass	ND	0.10000	0.00687	0.02081
Abamectin B1b	Pass	ND	0.10000	0.00133	0.00405
Acephate	Pass	ND	0.10000	0.02214	0.06710
Acequinocyl	Pass	ND	0.10000	0.02276	0.06897
Azoxystrobin	Pass	ND	0.10000	0.01262	0.03825
Bifenazate	Pass	ND	0.10000	0.01232	0.03734
Bifenthrin	Pass	ND	3.00000	0.04612	0.13976
Carbaryl	Pass	ND	0.50000	0.01039	0.03149
Chlorpyrifos	Pass	ND	0.04000	0.00702	0.02128
Cypermethrin	Pass	ND	1.00000	0.02839	0.08604
Etoazole	Pass	ND	0.10000	0.00915	0.02772
Imazalil	Pass	ND	0.04000	0.00664	0.02012
Imidacloprid	Pass	ND	5.00000	0.02001	0.06063
Myclobutanil	Pass	ND	0.10000	0.01691	0.05123
Spinosyn A	Pass	ND	0.10000	0.00632	0.01916
Spinosyn D	Pass	ND	0.10000	0.00256	0.00775
Pyrethrins	Pass	ND	0.50000	0.00022	0.00072
				0.00498 *	0.00015 *

* Pyrethrins action limit represents sum of isomers I & II

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License Number: MANU-0005



Sample ID: VT22400

Sample Name: THC Distillate

Sample Lot: MANU0005-25-FCF-XXXX-0710

Sample Matrix: Solvent Extraction Concentrates

Date Received: 7/10/2025

Date Reported: 7/16/2025

Date Tested: 7/15/2025



Total Cannabinoids

	%	mg/g
Total THC:	84.860	848.598
Total CBD:	0.603	6.026
Total Cannabinoids:	95.687	956.869

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-OA) | Test ID: #73263

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBC	ND	ND	0.0003	0.0040
CBCA	ND	ND	0.0002	0.0040
CBD	0.6026	6.026	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	3.9372	39.372	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	84.8598	848.598	0.0016	0.0049
D10 THC	ND	ND	0.0004	0.0040
THCA	< LOQ	< LOQ	0.0002	0.0040
THCV	6.2873	62.873	0.0016	0.0049
THCVA	ND	ND	0.0002	0.0040

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Client Name: Kria Commons

License Number: MANU-0005



Sample ID: VT22400

Sample Name: THC Distillate

Sample Lot: MANU0005-25-FCF-XXXX-0710

Sample Matrix: Solvent Extraction Concentrates

Date Received: 7/10/2025

Date Reported: 7/16/2025

Date Tested: 7/11/2025



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: #73264

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

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Client Name: Kria Commons

License Number: MANU-0005



Sample ID: VT2097

Sample Name: Starlink CO2 Terps (FCF)

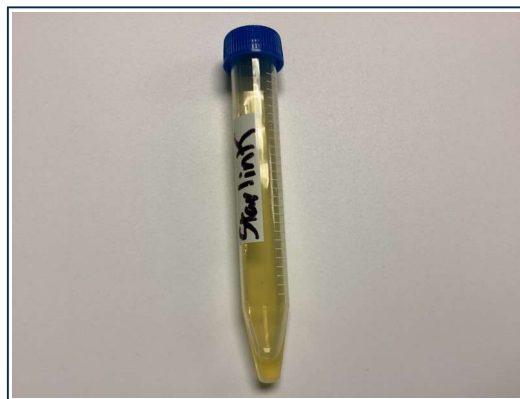
Sample Lot: MANU0005-23-T-FCF-SL1-T1-2

Sample Matrix: Solvent Extraction Concentrates

Date Received: 6/20/2023

Date Reported: 6/28/2023

Date Tested: 6/26/2023



Heavy Metals

PASS

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-OA) - **Limit units: µg/kg** | Test ID: #4107

Analyte	Pass/Fail	Result (ug/kg)	Limit	LOD (ug/kg)	LOQ (ug/kg)
Arsenic	PASS	< LOQ	1.500	0.00130	0.050
Cadmium	PASS	< LOQ	0.500	0.00002	0.050
Lead	PASS	< LOQ	1.000	0.00095	0.050
Mercury	PASS	< LOQ	1.500	0.00020	0.050

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Hailey Heinsohn



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Sample ID: VT2097

Sample Name: Starlink CO2 Terps (FCF)

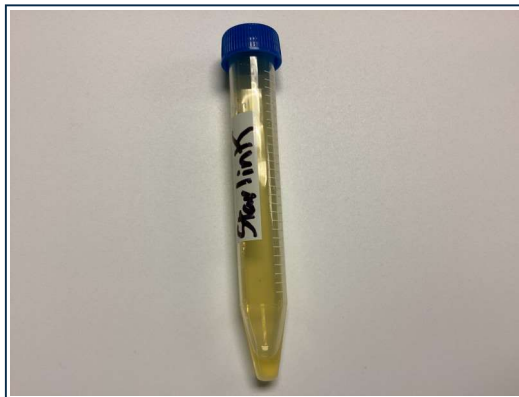
Sample Lot: MANU0005-23-T-FCF-SL1-T1-2

Sample Matrix: Solvent Extraction Concentrates

Date Received: 6/20/2023

Date Reported: 6/28/2023

Date Tested: 6/23/2023



Pesticides

Pass

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - Limit units: ppm | Test ID: #4094

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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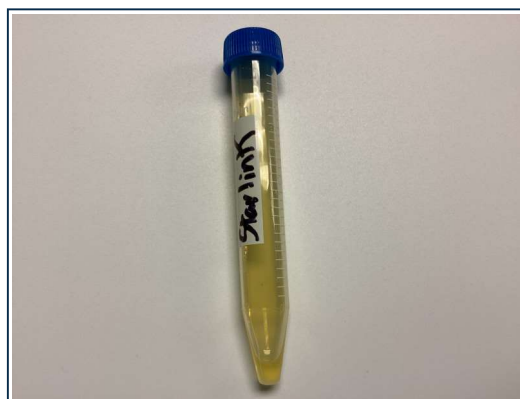
Sample Lot: MANU0005-23-T-FCF-SL1-T1-2

Sample Matrix: Solvent Extraction Concentrates

Date Received: 6/20/2023

Date Reported: 6/28/2023

Date Tested: 6/23/2023



Total Cannabinoids

	%	mg/g
Total THC:	1.967	19.672
Total CBD:	0.051	0.508
Total Cannabinoids:	2.253	22.534

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-OA) | Test ID: #4086

Analyte	%	mg/g	LOD (mg/g)	LOQ (mg/g)
CBDV	< LOQ	< LOQ	0.0008	0.0040
CBDVA	ND	ND	0.0001	0.0040
THCV	< LOQ	< LOQ	0.0016	0.0049
CBDA	< LOQ	< LOQ	0.0002	0.0040
CBD	0.0508	0.508	0.0008	0.0040
CBG	0.0596	0.596	0.0009	0.0040
CBGA	0.0176	0.176	0.0001	0.0040
THCVA	< LOQ	< LOQ	0.0002	0.0040
CBN	< LOQ	< LOQ	0.0004	0.0040
CBCVA	ND	ND	0.0004	0.0040
D9 THC	1.3401	13.401	0.0016	0.0049
D8 THC	ND	ND	0.0012	0.0040
CBNA	< LOQ	< LOQ	0.0002	0.0040
D10 THC	ND	ND	0.0004	0.0040
CBC	0.0496	0.496	0.0003	0.0040
THCA	0.715	7.15	0.0002	0.0040
BCA	0.0207	0.207	0.0002	0.0040

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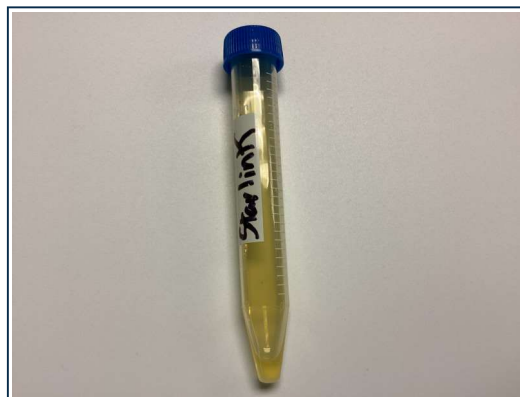
Sample Lot: MANU0005-23-T-FCF-SL1-T1-2

Sample Matrix: Solvent Extraction Concentrates

Date Received: 6/20/2023

Date Reported: 6/28/2023

Date Tested: 6/20/2023



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: #4106

Analyte	Pass/Fail	Result (ppm)	Limit	LOD (ppm)	LOQ (ppm)
Acetone	Pass	< LOQ	5000.000	17.008	51.538
Acetonitrile	Pass	< LOQ	410.000	4.017	12.172
Benzene	Pass	< LOQ	2.000	0.163	0.495
Chloroform	Pass	< LOQ	60.000	0.489	1.482
Ethanol	Pass	< LOQ	5000.000	44.183	133.887
Heptanes (total)	Pass	< LOQ	5000.000	62.270	188.696
Hexanes (total)	Pass	< LOQ	290.000	1.322	4.005
Isopropyl Alcohol	Pass	< LOQ	5000.000	2.364	7.162
Methanol	Pass	< LOQ	3000.000	27.126	82.201
Methylene Chloride	Pass	< LOQ	600.000	4.046	12.260
Toluene	Pass	< LOQ	890.000	6.317	19.143
Xylenes (total)	Pass	< LOQ	2170.000	19.426 14.858 *	58.868 45.024 *

Additional Solvent Analytes

Propane	Pass	< LOQ	5000.000	110.712	335.490
2-Methylpropane	Pass	< LOQ	5000.000	150.773	456.887
2,2-Dimethylbutane	Pass	< LOQ	5000.000	2.869	8.693
2,3-Dimethylbutane	Pass	< LOQ	5000.000	1.944	5.892
n-Butane	Pass	< LOQ	5000.000	152.350	461.667
2-Methylpentane	Pass	< LOQ	5000.000	1.664	5.042
3-Methylpentane	Pass	< LOQ	5000.000	2.056	6.231
Isopentane	Pass	< LOQ	5000.000	137.828	417.661
n-Pentane	Pass	< LOQ	5000.000	136.677	414.172
Neopentane	Pass	< LOQ	5000.000	28.431	86.154

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

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