

Summary of Results

Northern Craft Cannabis Red Delicious Tincture 1000mg

Prepared for Formulation Station

MANUFACTURER INFO

Formulation Station
LOT NUMBER
MANU003523NCCTINCRD10001
SERVING SIZE
28g
MATRIX
Oil

DATE RECEIVED

10/12/2023

DATE ANALYZED

10/18/2023

REPORT DATE

10/19/2023

ORIGINAL REPORT ID

C231012AY

TOTAL CANNABINOIDS

981.68 mg
per serving

Cannabinoid Profile	Concentration (mg/g)	Weight (%)
CBC	0.66	0.07
CBD	0.23	0.02
CBDA	Not Detected	Not Detected
CBDV	Not Detected	Not Detected
CBDVA	Not Detected	Not Detected
CBG	1.03	0.10
CBGA	Not Detected	Not Detected
CBN	0.89	0.09
THC-A	0.85	0.09
THCV	0.93	0.09
Δ8-THC	Not Detected	Not Detected
Δ9-THC	30.47	3.05
Total CBD	0.23	0.02
Total THC	31.22	3.12
Total Cannabinoids	35.06	3.51

TOTAL THC

874.2 mg
per serving

TOTAL CBD

6.45 mg
per serving



Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values.

Not Detected = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

This is not an official Certificate of Analysis

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(802) 540-0148 laboratory@biadiagnostics.com

Certificate of Analysis

Company: Formulation Station

Sample ID: Northern Craft Cannabis Red Delicious Tincture 1000mg

Lot: MANU003523NCCTINCRD10001 **Report Date:** 10/19/2023

Matrix: Oil

Date Analyzed: 10/18/2023

Customer ID: 190830-15

Date Sampled: N/A

Analyst: 011

Grower License #: MANU0035

Date Received: 10/12/2023

Report ID: C231012AY

Cannabinoid Summary

Cannabinoid Profile	LOQ (mg/g)	Concentration (mg/g)	Weight (%)
CBDVA	0.0005	<LOQ	<LOQ
CBDV	0.0012	<LOQ	<LOQ
CBDA	0.0008	<LOQ	<LOQ
CBGA	0.0008	<LOQ	<LOQ
CBG	0.0019	1.03	0.10
CBD	0.0019	0.23	0.02
THCV	0.0021	0.93	0.09
CBN	0.0013	0.89	0.09
Δ9-THC	0.0020	30.47	3.05
Δ8-THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	0.85	0.09
CBC	0.0024	0.66	0.07
Total THC		31.22	3.12
Total CBD		0.23	0.02
Total Cannabinoids		35.06	3.51

3.12%

Total THC

0.02%

Total CBD

3.51%

Total Cannabinoids

3.05%

Δ9-THC

N/A

Percent Moisture

1 : 0

THC : CBD Ratio



Cannabinoids Methodology: High Performance Liquid Chromatography (HPLC) using PerkinElmer FLEXAR™ with Photo Diode Array Detector (PDA)

Total CBD and total THC are calculated values, to account for assumed decarboxylation from the acid form (THCA or CBDA) to the neutral form, causing weight loss of the acid group. These values are calculated as follows:

Total THC = (THCA x 0.877) + Δ9-THC Total CBD = (CBDA x 0.877) + CBD
 Ratio of Total CBD: Total THC Reagent Blanks: < LOQs for all analytes

LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

Measurement of Uncertainty (MU): the parameter, associated with the result of a measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement.

Δ9-THC MU = ±0.005% Total THC MU = ±0.007%

All other cannabinoid MU values are available upon request.

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

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Certified by:



Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Formulation Station

Sample ID: Northern Craft Cannabis Red Delicious Tincture 1000mg

Lot: MANU003523NCCTINCRD10001

Report Date: 10/20/2023

Matrix: Oil

Date Analyzed: 10/19/2023

Customer ID: 190830-15

Date Sampled: N/A

Analyst: 048

Grower License #: MANU0035

Date Received: 10/12/2023

Report ID: C231012AY

Terpenes Summary

Terpene	LOQ (mg/g)	Results (mg/g)	Weight (%)
α - Pinene	0.010	0.462	0.046
Camphene	0.010	0.075	0.008
β -Myrcene	0.010	1.093	0.109
b-Pinene	0.010	0.626	0.063
3-Carene	0.010	<LOQ	<LOQ
α -Terpinene	0.010	<LOQ	<LOQ
Limonene	0.010	4.193	0.419
p-Cymene	0.010	<LOQ	<LOQ
Ocimene	0.010	3.797	0.380
Eucalyptol	0.010	<LOQ	<LOQ
γ -Terpinene	0.010	<LOQ	<LOQ
Terpinolene	0.010	0.054	0.005
Linalool	0.010	0.466	0.047
Isopulegol	0.010	<LOQ	<LOQ
Geraniol	0.010	<LOQ	<LOQ
Caryophyllene	0.010	0.623	0.062
α -Humulene	0.010	0.166	0.017
Trans-Nerolidol	0.010	<LOQ	<LOQ
Cis-Nerolidol	0.010	<LOQ	<LOQ
Guaiol	0.010	0.014	0.001
Caryophyllene Oxide	0.010	0.013	0.001
α -Bisabolol	0.010	0.015	0.002
Total Terpenes		11.597	1.160

N/A

 Percent
Moisture

LOQ = The lowest quantity this method can reliably detect. Any terpene that was not detected is assumed to be less than the stated LOQ (<LOQ).

Terpene Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: < LOQs for all analytes

All results reflect dry weight of material, based on % moisture of the sample.

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Certified by:



Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Kria Commons
 8 Harbor View Rd
 Burlington, VT 05403

Customer ID: 190904-01

Grower License #: N/A

Sample ID: CO2 THC Crude (MIX1)

Lot: MANU0005-T-NCC-THCMIX1-C1-3

Matrix: Distillate

Date Sampled: 12/20/2022

Date Received: 12/22/2022

Report Date: 1/11/2023

Date Analyzed: 1/10/2023

Analyst: 035

Report ID: C221222AG

Residual Solvents Summary

Residual Solvent	LOQ (µg/g)	Results (µg/g)
1,2-Dichloroethane	0.002	<LOQ
Benzene	0.003	<LOQ
Chloroform	0.006	<LOQ
Methylene Chloride	0.005	<LOQ
Trichloroethylene	0.001	<LOQ
Acetone	0.005	68.14
Acetonitrile	0.002	<LOQ
Propane	0.005	<LOQ
Butane	24.000	<LOQ
Ethanol	0.036	2583.27
Ethyl acetate	0.014	<LOQ
Ethyl Ether	0.225	<LOQ
Heptane	1.500	<LOQ
Hexane	0.023	<LOQ
Isopropyl Alcohol	0.018	<LOQ
Methanol	0.009	<LOQ
Pentane	22.500	<LOQ
Toluene	0.005	<LOQ
Total Xylenes	0.011	<LOQ

LOQ = The lowest quantity that this method can reliably detect. Any residual solvent that was not detected is assumed to be less than the stated LOQ (<LOQ).

Residual Solvent Methodology: Headspace Sampler, Gas Chromatography-Mass Spectrometry (GC-MS), using Perkin Elmer Clarus® SQ8 GC MS

Reagent Blanks: < LOQs for all analytes



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Certified by:



Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Kria Commons 8 Harbor View Rd Burlington, VT 05403 Customer ID: 190904-01 Grower License #: N/A	Sample ID: CO2 THC Crude (MIX1) Lot: MANU0005-T-NCC-THCMIX1-C1-3 Matrix: Distillate Date Sampled: 12/20/2022 Date Received: 12/22/2022	Report Date: 1/10/2023 Date Analyzed: 1/6/2023 Analyst: 042 Report ID: C221222AG
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Heavy Metal Summary

Heavy Metal Profile	LOQ (ppm)	Concentration (ppm)
Arsenic (As)	0.0001	0.0010
Cadmium (Cd)	0.0001	<LOQ
Mercury (Hg)	0.0001	<LOQ
Lead (Pb)	0.0001	0.0030



N/A
Percent Moisture

Heavy Metal Methodology: ICP-MS using PerkinElmer NexION® 2000 ICP Mass Spectrometer

Reagent Blanks: < LOQs for all analytes

ppm = parts per million

LOQ = The lowest quantity that this method can reliably detect. Any heavy metal that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

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Certified by: *Luke E. M.*
 Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

Certificate of Analysis

Company: Kria Commons
 8 Harbor View Rd
 Burlington, VT 05403
Customer ID: 190904-01
Grower License #: N/A

Sample ID: CO2 THC Crude (MIX1)

Lot: MANU0005-T-NCC-THCMIX1-C1-3 **Report Date:** 1/9/2023

Matrix: Distillate

Date Analyzed: 1/6/2023

Date Sampled: 12/20/2022

Analyst: 45

Date Received: 12/22/2022

Report ID: C221222AG

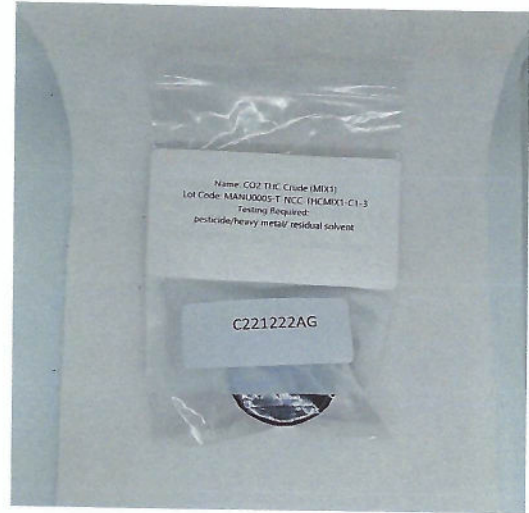
Pesticides/Mycotoxins Summary

Category II Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Abamectin	0.0100	<LOQ
Acephate	0.0010	<LOQ
Acequinocyl	0.0010	<LOQ
Azoxystrobin	0.0010	<LOQ
Bifenazate	0.0010	<LOQ
Bifenthrin	0.0010	<LOQ
Carbaryl	0.0010	<LOQ
Cypermethrin	0.0100	<LOQ
Etoxazole	0.0010	<LOQ
Imidacloprid	0.0010	<LOQ
Myclobutanil	0.0010	<LOQ
Pyrethrin I	0.0010	<LOQ
Pyrethrin II	0.0010	<LOQ
Spinosyn A	0.0010	<LOQ
Spinosyn D	0.0010	<LOQ

Category II Mycotoxin	LOQ (ppm)	Concentration (ppm)
Ochratoxin A	0.0020	NOT TESTED
Aflatoxin B1	0.0002	NOT TESTED
Alfatoxin B2	0.0010	NOT TESTED
Alfatoxin G1	0.0002	NOT TESTED
Alfatoxin G2	0.0010	NOT TESTED

Category I Residual Pesticide	LOQ (ppm)	Concentration (ppm)
Chlorpyrifos	0.0010	<LOQ
Imazalil	0.0010	<LOQ

N/A
Percent Moisture



LOQ = The lowest quantity this method can reliably detect. Any pesticide or mycotoxins that was not detected is assumed to be less than the stated LOQ (<LOQ).

All results reflect dry weight of material, based on % moisture of the sample.

ppb = parts per billion

Pesticides/Mycotoxin Methodology: Liquid Chromatography with Tandem Mass Spectrometry using PerkinElme QSight® LX50 UHPLC and QSight 220 Mass Spectrometer

All moisture analysis is determined by loss-on-drying measurement using OHAUS Model MB90 Moisture Content Readers.

Certified by: Luke E. M.
 Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

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Results apply to the samples as received.

(802) 540-0148 laboratory@biadiagnostics.com



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

Certificate of Analysis

Client Name: Kria Commons
License Number: MANU-0005

Sample ID: VT2983
Sample Name: Red Delicious CO2 Terps
Sample Lot: MANU0005-23-T-NCC-RD1-T1
Sample Matrix: Solvent Extraction Concentrates
Date Received: 8/14/2023
Date Reported: 8/21/2023
Date Tested: 8/16/2023



Pesticides Pass

Residual pesticide analysis utilizing Liquid Chromatography – Mass Spectrometry (LC-MSMS; SOP-070-OA) - **Limit units: ppm** Test ID: #6391

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
 8/21/2023

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.





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Certificate of Analysis

Client Name: Kria Commons
License Number: MANU-0005

Sample ID: VT2983
Sample Name: Red Delicious CO2 Terps
Sample Lot: MANU0005-23-T-NCC-RD1-T1
Sample Matrix: Solvent Extraction Concentrates
Date Received: 8/14/2023
Date Reported: 8/21/2023
Date Tested: 8/18/2023



Heavy Metals PASS

Heavy metals analysis utilizing Inductively Coupled Plasma Mass Spectrometry (ICP-MS; SOP-072-0A) - Limit units: µg/kg | Test ID: #6392

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

Callie Chapman
 Lab Director
 8/21/2023

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Certificate of Analysis

Client Name: Kria Commons
License Number: MANU-0005

Sample ID: VT2983
Sample Name: Red Delicious CO2 Terps
Sample Lot: MANU0005-23-T-NCC-RD1-T1
Sample Matrix: Solvent Extraction Concentrates
Date Received: 8/14/2023
Date Reported: 8/21/2023
Date Tested: 8/15/2023



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: #6390

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	58.868
				14.858 *	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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 Lab Director
 8/21/2023

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