

## Certificate of Analysis

**Company:** Grassroots Vermont

84 Lovers LN

Brandon, VT 05733

**Customer ID:** 230207-0

**Grower License #:** INTG0003

**Sample ID:** Choclope Distillate

**Lot:** CHOC-030424-D

**Matrix:** Concentrate

**Date Sampled:** N/A

**Date Received:** 3/5/2024

**Report Date:** 3/12/2024

**Date Analyzed:** 3/8/2024

**Analyst:** 057

**Report ID:** C240305AS

### 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	25.60	2.56
CBD	0.0019	2.76	0.28
THCV	0.0021	6.05	0.61
CBN	0.0013	18.43	1.84
Δ9-THC	0.0020	851.32	85.13
Δ8-THC	0.0019	<LOQ	<LOQ
THC-A	0.0034	<LOQ	<LOQ
CBC	0.0024	12.86	1.29
<b>Total THC</b>		<b>851.32</b>	<b>85.13</b>
<b>Total CBD</b>		<b>2.76</b>	<b>0.28</b>
<b>Total Cannabinoids</b>		<b>917.03</b>	<b>91.70</b>

85.13%

**Total THC**

0.28%

**Total CBD**

91.7%

**Total Cannabinoids**

85.13%

**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

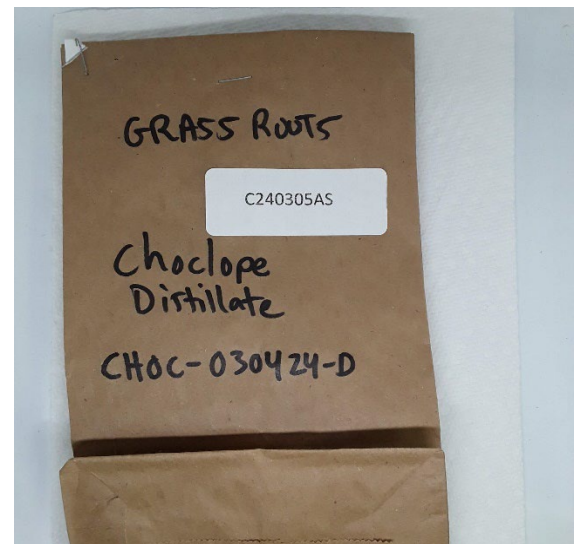
LOQ = The lowest quantity that this method can reliably detect. Any cannabinoid that was not detected is assumed to be less than the stated LOQ (<LOQ).

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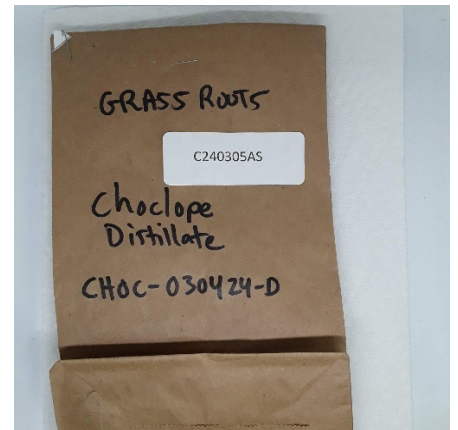
Certified by: *Luke E.M*  
 Luke Emerson Mason (Laboratory Director, Bia Diagnostics)

## Certificate of Analysis

<b>Company:</b> Grassroots Vermont 84 Lovers LN Brandon, VT 05733  <b>Customer ID:</b> 230207-0  <b>Grower License #:</b> INTG0003	<b>Sample ID:</b> Chocolope Distillate <b>Lot:</b> CHOC-030424-D <b>Matrix:</b> Concentrate <b>Date Sampled:</b> N/A <b>Date Received:</b> 3/5/2024	<b>Report Date:</b> 3/20/2024 <b>Date Analyzed:</b> 3/18/2024 <b>Analyst:</b> 045 <b>Report ID:</b> C240305AS
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## Heavy Metal Summary

Heavy Metal Profile	LOQ (ppm)	Concentration (ppm)
<b>Arsenic (As)</b>	0.0001	<b>0.0046</b>
<b>Cadmium (Cd)</b>	0.0001	<b>0.0001</b>
<b>Mercury (Hg)</b>	0.0001	<LOQ
<b>Lead (Pb)</b>	0.0001	<b>0.0003</b>



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).

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**Customer ID:** 230207-0

**Grower License #:** INTG0003

**Sample ID:** Chocolope Distillate

**Lot:** CHOC-030424-D

**Matrix:** Concentrate

**Date Sampled:** N/A

**Date Received:** 3/5/2024

**Report Date:** 3/14/2024

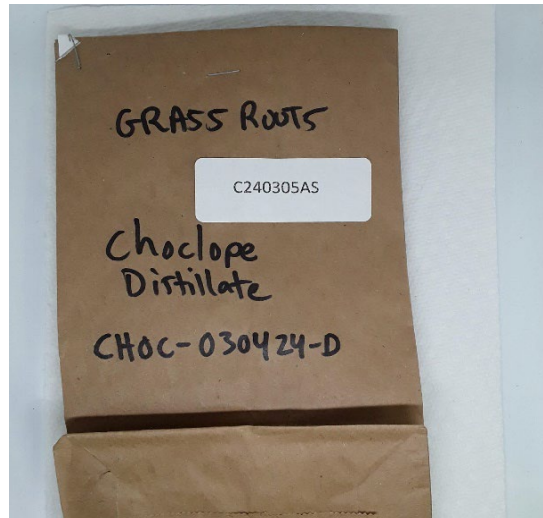
**Date Analyzed:** 3/12/2024

**Analyst:** 018

**Report ID:** C240305AS

## Pathogen Summary

Target Pathogens	Method	LOD (cfu/g)	Result (cfu/g)
Aspergillus - flavus, fumigatus, niger, terreus	Aspergillus AOAC PTM No. 032104	5	< LOD
STEC	STEC Virx AOAC PTM No. 121203	5	< LOD
Salmonella spp.	Salmonella II AOAC PTM No. 010803	5	< LOD



Test Methodology: Bio-Rad IQ-Check PCR Kits

cfu/g = colony forming units per gram

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

Reagent Blanks: <LOD for all analytes

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**Sample ID:** Choclope Distillate  
**Lot:** CHOC-030424-D  
**Matrix:** Concentrate

**Report Date:** 3/13/2024  
**Date Analyzed:** 03/08/2024

**Customer ID:** 230207-0

**Date Sampled:** N/A

**Analyst:** 045

**Grower License #:** INTG0003

**Date Received:** 3/5/2024

**Report ID:** C240305AS

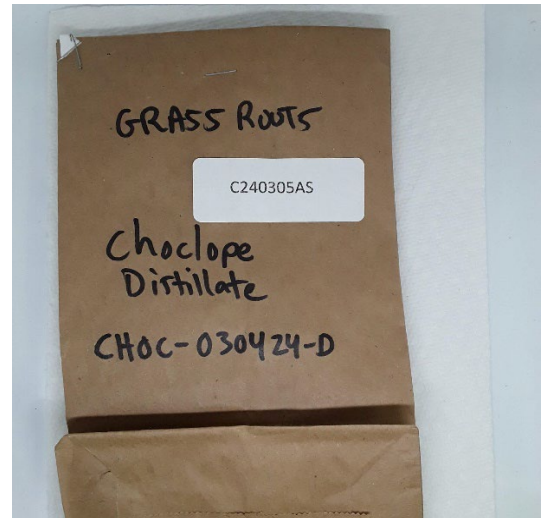
### Pesticides/Mycotoxins Summary

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
Etoazole	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.

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**Matrix:** Concentrate

**Report Date:** 3/12/2024  
**Date Analyzed:** 3/11/2024

**Customer ID:** 230207-0  
**Grower License #:** INTG0003

**Date Sampled:** N/A  
**Date Received:** 3/5/2024

**Analyst:** 048  
**Report ID:** C240305AS

### Residual Solvents Summary

Residual Solvent	LOQ (µg/g)	Results (µg/g)
Benzene	0.20	<LOQ
Chloroform	6.00	<LOQ
Methylene Chloride	500.00	<LOQ
Trichloroethylene	500.00	<LOQ
Acetone	40.00	<LOQ
Acetonitrile	500.00	<LOQ
Propane	500.00	<LOQ
Butane	20.00	<LOQ
Ethanol	500.00	<LOQ
Ethyl acetate	500.00	<LOQ
Ethyl Ether	500.00	<LOQ
Heptane	500.00	<LOQ
Hexane	30.00	<LOQ
Isopropyl Alcohol	500.00	<LOQ
Methanol	300.00	<LOQ
Pentane	500.00	<LOQ
Toluene	90.00	<LOQ
<b>Total Xylenes</b>	<b>200.00</b>	<b>&lt;LOQ</b>

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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