

Accredited Laboratory

A2LA has accredited

GREEN ANALYTICS VIRGINIA, LLC

Ashland, VA

for technical competence in the field of
Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

Presented this 20th day of January 2023.

A handwritten signature in black ink, appearing to read 'Trace McInturf', is written over a horizontal line.

Mr. Trace McInturf, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5748.01
Valid to October 31, 2024



For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

GREEN ANALYTICS VIRGINIA, LLC
 10338 Stony Run Lane
 Ashland, VA 23005
 Rebecca Hobden Phone: 540-682-3765

CHEMICAL

Valid To: October 31, 2024

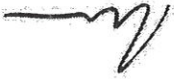
Certificate Number: 5748.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on cannabis and hemp products:

Test Method(s)	Test(s)/Technology(ies)
SOP-VA 1149-Cannabinoïd Potency (Doc ID 1149)	Cannabinoïd Potency by HPLC CBC CBD CBDA CBG CBGA CBN Delta-8-THC Delta-9-THC Delta-9-THCA THCV Total CBD Total THC
SOP-VA 1165 Trace Heavy Metals for Plants & Products (Doc ID 1165)	Heavy Metals by ICP-MS Arsenic, As Cadmium, Cd Lead, Pb Mercury, Hg
SOP-VA 1301-Residual Solvents Analysis (Doc ID 1501)	Residual Solvents by GC-MS 1,2-Dichloroethane (IPA) Acetone Acetonitrile Benzene Chloroform Cyclohexane Ethanol Ethyl Acetate Methanol



Test Method(s)	Test(s)/Technology(ies)
	Chlorpyrifos
	Clofentazine
	Cyfluthrin
	Cypermethrin
	Daminozide
	Diazinon
	Dichlorvos
	Dimethoate
	Ethoprophos
	Etofenprox
	Etoxazole
	Fenoxycarb
	Fenpyroximate
	Fipronil
	Flonicamid
	Fludioxonil
	Hexythiazox
	Imazali
	Imidacloprid
	Kresoxim-methyl
	Malathion
	Metaxyl
	Methiocarb
	Methomyl
	Methyl parathion
	MGK-264
	Myclobutanil
	Naled
	Oxamyli
	Paclobutrazol
	Permethrins
	Phosmet
	Piperonyl butoxide
	Prallathrin
	Propiconazole
	Propoxur
	Pyrethrins
	Pyridaben
	Spinosad
	Spiromesifen
	Spirotetramat
	Spiroxamine
	Tebuconazole



<u>Test Method(s)</u>	<u>Test(s)/Technology(ies)</u>
SOP-VA 1382-Microbial Contamination by Plate Count based on USP <61> and <62> and <i>Petriilm</i> (Doc ID 1382)	Microbial Contamination by Plate Count <i>Aspergillus</i> <i>Pseudomonas aeruginosa</i> <i>Salmonella</i> spp. <i>Staphylococcus aureus</i> Microbial Contamination by Plate Count & <i>Petriilm</i> BTGN <i>Escherichia coli</i> Total Aerobic Microbial Count Total coliforms Total Yeast and Mold Count
Microbial contamination by qPCR SOP-701-GA, SOP-702-GA, SOP-703-GA	Microbial Contamination by qPCR BTGN <i>Escherichia coli</i> <i>Salmonella</i> spp. Total Aerobic Microbial Count Total coliforms Total Yeast and Mold Count
SOP-055-GA Moisture Content	Moisture content by Moisture Analyzer Moisture content, %
SOP-VA 1496-Water Activity (Doc ID 1496)	Water Activity by Water Activity Meter Water activity, a _w

BIOLOGICAL

<u>Test Method(s)</u>	<u>Test(s)/Technology(ies)</u>
SOP-VA 1581-Pesticides and Mycotoxin Detection (Doc ID 1581)	Thiactoprid Thiamethoxam Trifloxystrobin Mycotoxins by LC-MS/MS Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2 Ochratoxin

CERTIFICATE OF ANALYSIS

10338 Stony Run Lane,
 Ashland, VA 23005
 540-682-3765
 info_VA@greenanalyticssc.com

CUSTOMER INFORMATION

Customer: Redfern Hemp Co
 Sample Received On: 12/08/2023
 Date COA Released: 12/12/2023

SAMPLE INFORMATION

Sample Name: Redfern 25:1 Gummy Melt 3
 Sample Description: Edibles
 Sample ID: SAMPLE-16422



CANNABINOID POTENCY
 Date Tested: 12/08/2023
 Operator: Dan Blader

ANALYTE	LOD (mg/g)	LOQ (mg/g)	Concentration (mg/g)	Concentration (%)
CBD	0.04	0.13	89.19	8.92
CBDV	0.04	0.13	0.44	0.04
CBCA	0.04	0.13	ND	ND
CBC	0.04	0.13	ND	ND
CBGA	0.04	0.13	ND	ND
CBG	0.04	0.13	ND	ND
delta9 THCA	0.04	0.13	ND	ND
delta9 THC	0.04	0.13	2.91	0.29
CBDVA	0.04	0.13	ND	ND
THCV	0.04	0.13	ND	ND
THCVA	0.04	0.13	ND	ND
CBN	0.04	0.13	ND	ND
delta8 THC	0.04	0.13	ND	ND
Total CBD			89.19	8.92
Total THC			2.91	0.29

The sample was analyzed for cannabinoids following SOP-VA-1149 Cannabinoid Potency.

Total CBD = CBDA * 0.877 + CBD
 Total delta-9 THC = THCA * 0.877 + delta-9 THC
 The Measurement Uncertainty for Total THC at 0.3% is +/-0.05%. The range for Total THC is 0.25%-0.35%.

ND = Not Detected, LOD = Limit of Detection, LOQ = Limit of Quantification
 PPM = Parts per Million = mg/kg, PPB = Parts per Billion = ug/kg, CFU/g = Colony Forming Units per gram

Results below the LOQ are reported as ND.

Action limits are set by the Virginia Board of Pharmacy, Regulations Governing Pharmaceutical Processors. 18VAC 110-60-300.

Where statements of conformity are reported ('pass' vs 'fail'), the simple acceptance decision rule is applied.

Testing results are based solely on the sample submitted to Green Analytics Virginia in the condition it was received. This product has been tested by Green Analytics Virginia using valid testing methodologies. Values reported relate only to the product tested. Values reported may be an average of multiple test results. Green Analytics Virginia makes no claims as to the efficacy, safety, or other risks with any detected or non-detected levels of any compound reported herein. This Certificate of Analysis shall not be reproduced except in full with the express written consent of the Green Analytics Virginia.

Prepared by:

Shawn Manns, Lab Manager

Approved by:

Rebecca Hobden, Lab Director

CERTIFICATE OF ANALYSIS

Green Analytics VA
 10338 Stony Run Lane,
 Ashland, VA 23005
 540-682-3765
 info_VA@greenanalyticsllc.com



CUSTOMER INFORMATION

Customer: Redfern Hemp Co
 Sample Received On: 11/17/2023
 Date COA Released: 11/24/2023

SAMPLE INFORMATION

Sample Name: Redfern 25:1 Cookie Sandwich
 Sample Description: Edibles
 Sample ID: SAMPLE-16135

CANNABINOID POTENCY
 Date Tested: 11/22/2023
 Operator: Shawn Manns

ANALYTE	LOD (mg/g)	LOQ (mg/g)	Concentration (mg/g)	Concentration (%)
CBD	0.04	0.12	86.67	8.67
CBDVA	0.04	0.12	ND	ND
delta9 THC	0.04	0.12	2.06	0.21
delta9 THCA	0.04	0.12	ND	ND
CBG	0.04	0.12	ND	ND
CBGA	0.04	0.12	ND	ND
CBC	0.04	0.12	ND	ND
CBCA	0.04	0.12	ND	ND
CBDV	0.04	0.12	0.29	0.03
CBDVA	0.04	0.12	ND	ND
THCV	0.04	0.12	ND	ND
THCVA	0.04	0.12	ND	ND
CBN	0.04	0.12	ND	ND
delta8 THC	0.04	0.12	ND	ND
Total CBD			86.67	8.67
Total THC			2.06	0.21

The sample was analyzed for cannabinoids following SOP-VA-1149 Cannabinoid Potency.

Total CBD = CBDA * 0.877 + CBD

Total delta-9 THC = THCA * 0.877 + delta-9 THC

The Measurement Uncertainty for Total THC at 0.3% is +/-0.05%. The range for Total THC is 0.25%-0.35%.

ND = Not Detected, LOD = Limit of Detection, LOQ = Limit of Quantification

PPM = Parts per Million = mg/kg, PPB = Parts per Billion = ug/kg, CFU/g = Colony Forming Units per gram

Results below the LOQ are reported as ND.

Action limits are set by the Virginia Board of Pharmacy, Regulations Governing Pharmaceutical Processors, 18VAC 110-60-300.

Where statements of conformity are reported ('pass' vs 'fail'), the simple acceptance decision rule is applied.

Testing results are based solely on the sample submitted to Green Analytics Virginia in the condition it was received. This product has been tested by Green Analytics Virginia using valid testing methodologies. Values reported relate only to the product tested. Values reported may be an average of multiple test results. Green Analytics Virginia makes no claims as to the efficacy, safety, or other risks with any detected or non-detected levels of any compound reported herein. This Certificate of Analysis shall not be reproduced except in full with the express written consent of the Green Analytics Virginia.

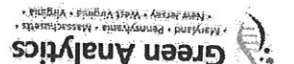
Prepared by:

Shawn Manns, Lab Manager

Approved by:

Rebecca Hobden, Lab Director

CERTIFICATE OF ANALYSIS



CUSTOMER INFORMATION
 Customer: Redfern Hemp Co
 Sample Received On: 07/13/2023
 Date COA Released: 07/13/2023

SAMPLE INFORMATION
 Sample Name: Compliant 25:1 Chocolate
 Sample Description: Fdibles
 Sample ID: SAMPLE-14479



CANNABINOID POTENCY

Date Tested: 07/13/2023
 Operator: Dan Blader

ANALYTE	LOD (mg/g)	LOQ (mg/g)	Concentration (mg/g)	Concentration (%)
CBD	0.02	0.07	35.76	3.58
CBDa	0.02	0.07	ND	ND
delta9 THC	0.02	0.07	0.09	0.09
delta9 THCA	0.02	0.07	ND	ND
CBG	0.02	0.07	ND	ND
CBGA	0.02	0.07	ND	ND
CBC	0.02	0.07	ND	ND
CBCA	0.02	0.07	ND	ND
CBDV	0.02	0.07	ND	ND
CBDVA	0.02	0.07	ND	ND
THCV	0.02	0.07	ND	ND
THCVA	0.02	0.07	ND	ND
CBN	0.02	0.07	ND	ND
delta8 THC	0.02	0.07	ND	ND
Total CBD			35.76	3.58
Total THC			0.89	0.09

The sample was analyzed for cannabinoids following SOP-VA-1149 Cannabinoid Potency.

Total CBD = CBDA * 0.877 + CBD
 Total delta-9 THC = THCA * 0.877 + delta-9 THC
 The Measurement Uncertainty for Total THC at 0.3% is +/-0.05%. The range for Total THC is 0.25%-0.35%.

ND = Not Detected, LOD = Limit of Detection, LOQ = Limit of Quantification
 PPM = Parts per Million, PPB = Parts per Billion, ug/kg, CFU/g = Colony Forming Units per gram

Results below the LOQ are reported as ND.

Action limits are set by the Virginia Board of Pharmacy, Regulations Governing Pharmaceutical Processors, 18VAC 110-60-300.

Where statements of conformity are reported ('pass' vs 'fail'), the simple acceptance decision rule is applied.

Testing results are based solely on the sample submitted to Green Analytics Virginia in the condition it was received. This product has been tested by Green Analytics Virginia using valid testing methodologies. Values reported relate only to the product tested. Green Analytics Virginia makes no claims as to the efficacy, safety, or other risks with any detected or non-detected levels of any compound reported herein. This Certificate of Analysis shall not be reproduced except in full without the express written consent of the Green Analytics Virginia.

Shawn Manns, Lab Manager

Approved by:

Rebecca Hobden, Lab Director

Test Method(s)	Test(s)/Technology(ies)
	Methylene chloride n-Heptane n-Hexane n-Pentane Toluene Total Xylenes Trichloroethene
SOP-VA 1539-Terpenes Analysis (Doc ID 1539)	Terpenes by GC-MS 3-Carene Camphene Caryophyllene Oxide Cineole/Eucalyptol Geraniol Guaiol Isopulegol Limonene Linalool Myrcene Nerolidol Ocimene p-cymene Terpinolene α-Bisabolol α-Humulene α-Pinene α-Terpinene β-Caryophyllene β-Pinene γ-Terpinene
SOP-VA 1581-Pesticides and Mycotoxin Detection (Doc ID 1581)	Pesticides by LC-MS/MS Abamectin Acephate Acequinocyl Acetamiprid Aldicarb Azoxystrobin Bifenazate Bifenthrin Boscalid Carbaryl Carbofuran Chlorantraniliprole Chlorfenapyr