Green Analytics
• Maryland • Pennsylvania • Massachusetts •
• New Jersey • West Virginia • Virginia •

CERTIFICATE OF ANALYSIS

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

CUSTOMER INFORMATION

Customer: Shenandoah Valley Hemp
Sample Received On: 03/17/2025
Date COA Released: 03/19/2025

SAMPLE INFORMATION

Sample Name: Balance 1500
Sample Description: Tincture
Sample ID: SAMPLE- 23256
Batch ID: 0781630020095701

Pesticides	Mycotoxins	Heavy Metals
PASS	PASS	PASS

Microbial Contamination	Residual Solvents-PB
PASS	PASS

CANNABINOID POTENCY

Date Tested: 03/17/2025
Operator: Dan Blader

ANALYTE	Concentration (mg/g)	Concentration (%)
CBD	53.11	5.311
CBDA	2.21	0.221
delta9 THC	0.85	0.085
delta9 THCA	ND	ND
CBG	0.43	0.043
CBGA	ND	ND
CBC	1.73	0.173
CBCA	ND	ND
CBDV	ND	ND
CBDVA	ND	ND
THCV	ND	ND
THCVA	ND	ND
CBN	0.53	0.053
delta8 THC	ND	ND
Total CBD	55.05	5.505
Total THC	0.85	0.085

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

Results are reported on a dry-weight basis:
Concentration = Concentration of Wet Samples / (1 - Moisture Concentration)

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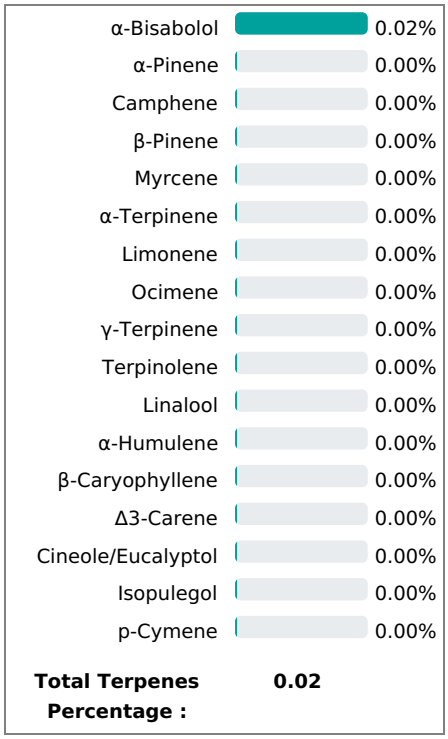
TERPENE PROFILE

Date Tested: 03/17/2025
Operator: Haley Egeland

ANALYTE	Concentration (mg/g)	Concentration (%)
α-Pinene	ND	ND
Camphene	ND	ND
β-Pinene	ND	ND
Myrcene	ND	ND
α-Terpinene	ND	ND
Limonene	ND	ND
Ocimene	ND	ND
γ-Terpinene	ND	ND
Terpinolene	ND	ND
Linalool	ND	ND
α-Humulene	ND	ND
β-Caryophyllene	ND	ND
Δ3-Carene	ND	ND
Cineole/Eucalyptol	ND	ND
Isopulegol	ND	ND
α-Bisabolol	0.20	0.02
p-Cymene	ND	ND

Total Terpenes Analyzed : **17**



The sample was analyzed for terpenes using gas chromatography with mass spectrometric detection (GC-MS) following *SOP-VA-1539*.

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PESTICIDES — **Date Tested: 03/17/2025** — **Operator: Shawn Manns**

ANALYTE	ACTION LIMIT (PPM)	RESULTS (PPM)
Abamectin	0.500	ND
Acephate	0.400	ND
Acetamiprid	0.200	ND
Acequinocyl	2.000	ND
Azoxystrobin	0.200	ND
Aldicarb	0.400	ND
Bifenazate	0.200	ND
Bifenthrin	0.200	ND
Boscalid	0.400	ND
Carbaryl	0.200	ND
Carbofuran	0.200	ND
Chlorantraniliprole	0.200	ND
Chlorfenapyr	1.000	ND
Chlorpyrifos	0.200	ND
Clofentezine	0.200	ND
Cyfluthrin	1.000	ND
Cypermethrin	1.000	ND
Daminozide	1.000	ND
Diazinon	0.200	ND
Dichlorvos	0.100	ND
Dimethoate	0.200	ND
Ethoprophos	0.200	ND
Etofenprox	0.400	ND
Etoxazole	0.200	ND
Fenpyroximate	0.400	ND
Fenoxycarb	0.200	ND
Fipronil	0.400	ND
Flonicamid	1.000	ND
Fludioxonil	0.400	ND
Hexythiazox	1.000	ND
Imazalil	0.200	ND

PESTICIDES — **Date Tested: 03/17/2025** — **Operator: Shawn Manns**

ANALYTE	ACTION LIMIT (PPM)	RESULTS (PPM)
Imidacloprid	0.400	ND
Kresoxim-methyl	0.400	ND
Malathion	0.200	ND
Metalaxyl	0.200	ND
Methyl Parathion	0.200	ND
Methomyl	0.400	ND
Methiocarb	0.200	ND
MGK-264	0.200	ND
Myclobutanil	0.200	ND
Naled	0.500	ND
Oxamyl	1.000	ND
Paclobutrazol	0.400	ND
Prallethrin	0.200	ND
Permethrin	0.200	ND
Phosmet	0.200	ND
Piperonyl butoxide	2.000	ND
Propiconazole	0.400	ND
Propoxur	0.200	ND
Pyrethrin	1.000	ND
Pyridaben	0.200	ND
Spinosad	0.200	ND
Spiromesifen	0.200	ND
Spirotetramat	0.200	ND
Spiroxamine	0.400	ND
Thiacloprid	0.200	ND
Thiamethoxam	0.200	ND
Tebuconazole	0.400	ND
Trifloxystrobin	0.200	ND

The sample was analyzed for pesticides using liquid chromatography with mass spectrometric detection (LC-MS/MS) following *SOP-VA-1581*.

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HEAVY METALS

Date Tested: 03/18/2025
Operator: Dan Blader

ANALYTE	ACTION LIMIT (PPM)	RESULTS (PPM)
Arsenic	10.000	ND
Cadmium	4.100	ND
Lead	10.000	ND
Mercury	2.000	ND

The sample was analyzed for heavy metals in inductively coupled plasma with mass spectrometry (ICP-MS) following *SOP-VA-1165*.

MYCOTOXINS

Date Tested: 03/17/2025
Operator: Shawn Manns

ANALYTE	ACTION LIMIT (PPB)	RESULTS (PPB)
Ochratoxin A	5.000	ND
Aflatoxin (B1, B2, G1, G2)	20.0	ND

The sample was analyzed for mycotoxins using liquid chromatography with mass spectrometric detection (LC-MS/MS) following *SOP-VA-1581*.

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MICROBIOLOGICAL IMPURITY

Date Tested: 03/19/2025
Operator: Sarah Earles

MICROBE	ACTION LIMIT	RESULT
Total Aerobic Microbial Count(TAMC)	2000	ND
Total Yeast and Mold Count(TYMC)	200	ND
MICROBE	**ACTION LIMIT**	**PRESENT/ABSENT**
E. coli	ABSENT	ABSENT
Salmonella	ABSENT	ABSENT

The sample was analyzed for microbial contamination using either qPCR or Petrifilm that follow *SOP-701, 702, 703-GA* or *SOP-VA-1382.* Results are reported in CFU/gram.

RESIDUAL SOLVENTS

Date Tested: 03/17/2025
Operator: Haley Egeland

ANALYTE	ACTION LIMIT (PPM)	RESULTS (PPM)	RESULTS (%)
Butane	5000	ND	ND
Propane	5000	ND	ND
Ethyl ether	5000	ND	ND
Ethanol	5000	ND	ND
Ethyl acetate	5000	ND	ND
n-Heptane	5000	ND	ND
n-Hexane	290	ND	ND
n-Pentane	5000	ND	ND
2-Propanol (isopropanol)	5000	ND	ND

The sample was analyzed for residual solvents using gas chromatography with mass spectrometric detection (GC-MS) following *SOP-VA-1301*.

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

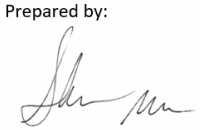
Results below the LOQ are reported as ND.

Action limits are set according to Commonwealth of Virginia: 3VAC10-60-20.

Where statements of conformity are reported ('pass' vs 'fail'), the simple acceptance decision rule is applied. The measurement uncertainty associated with each test method may impact the certainty with which a statement of conformity is made. This is a simplified report; however, measurement uncertainty, limit of detection and quantification values, and minimum reporting limits are available upon request.

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 without the express written consent of Green Analytics Virginia.

Prepared by:



Shawn Manns, Lab Manager

Approved by:

Rebecca Hobden, Lab Director